

STATE OF UTAH

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒OTHER ☐SINGLE
ZONE ☐MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Company,
a Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any requirements.)

At surface 1005' FSL & 350' FWL, Sec. 17-T35S-R12W

At proposed prod. zone

Approx. the same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

12 miles N 45 W from Cedar City

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drig. unit line, if any)Lease: 350'
Unit: 16,190'18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

16. NO. OF ACRES IN LEASE

4590.68

17. NO. OF ACRES ASSIGNED
TO THIS WELL

Wildcat

19. PROPOSED DEPTH

15,000'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

GR 5391'

22. APPROX. DATE WORK WILL START*

March 15, 1984

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	20"	Conductor	100'	230 ft ³
17-1/2"	13-3/8"	72#	1000'	1390 ft ³
12-1/4"	9-5/8"	40#	10500'	1880 ft ³
8-3/4"	7"	29#	15000'	570 ft ³

The proposed well location is shown on the attached plat (Attachment #1).

- The water for the ARCO Three Peaks No. 1 will be appropriated from a Union Pacific water well located in the SE/4 SE/4 of Sec. 18-T35S-R12W. After the required water permits have been secured, copies will be forwarded to you.
- Access route, well location, and water well location are shown on the attached map (Attachment #2).
- The blowout preventor program is detailed in Attachment #3.
- A brief drilling plan is detailed in Attachment #4.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

W.A. Walther, Jr.

Operations Manager

DATE

2-13-84

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 2/14/84
BY: [Signature]



ATTACHMENT #1

POWERS ELEVATION

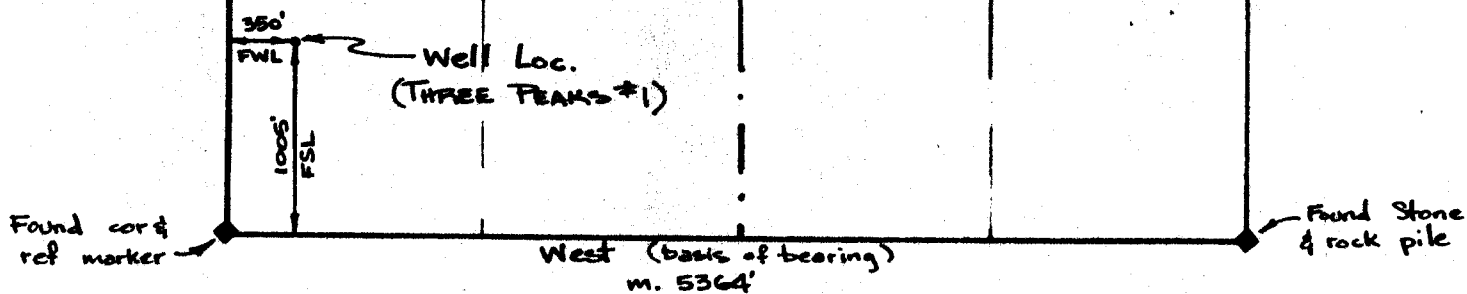
Well Location Plat

R. 12 W.

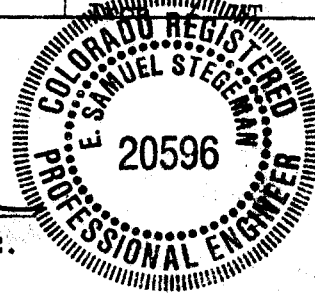
N

1"=1000'

T. 35 S.



Operator ARCO O&G Co.		Well name Three Peaks #1	
Section 17	Township 35 South	Range 12 West	Meridian Salt Lake
Footages 1005' FSL & 350' FWL			County/State Iron / UT
Elevation 5391 gr	Requested by Pete Tibbits		
The above plat is true and correct to the best of my knowledge and belief.			
<i>E. Samuel Stegeman</i> E. Samuel Stegeman P.E.			

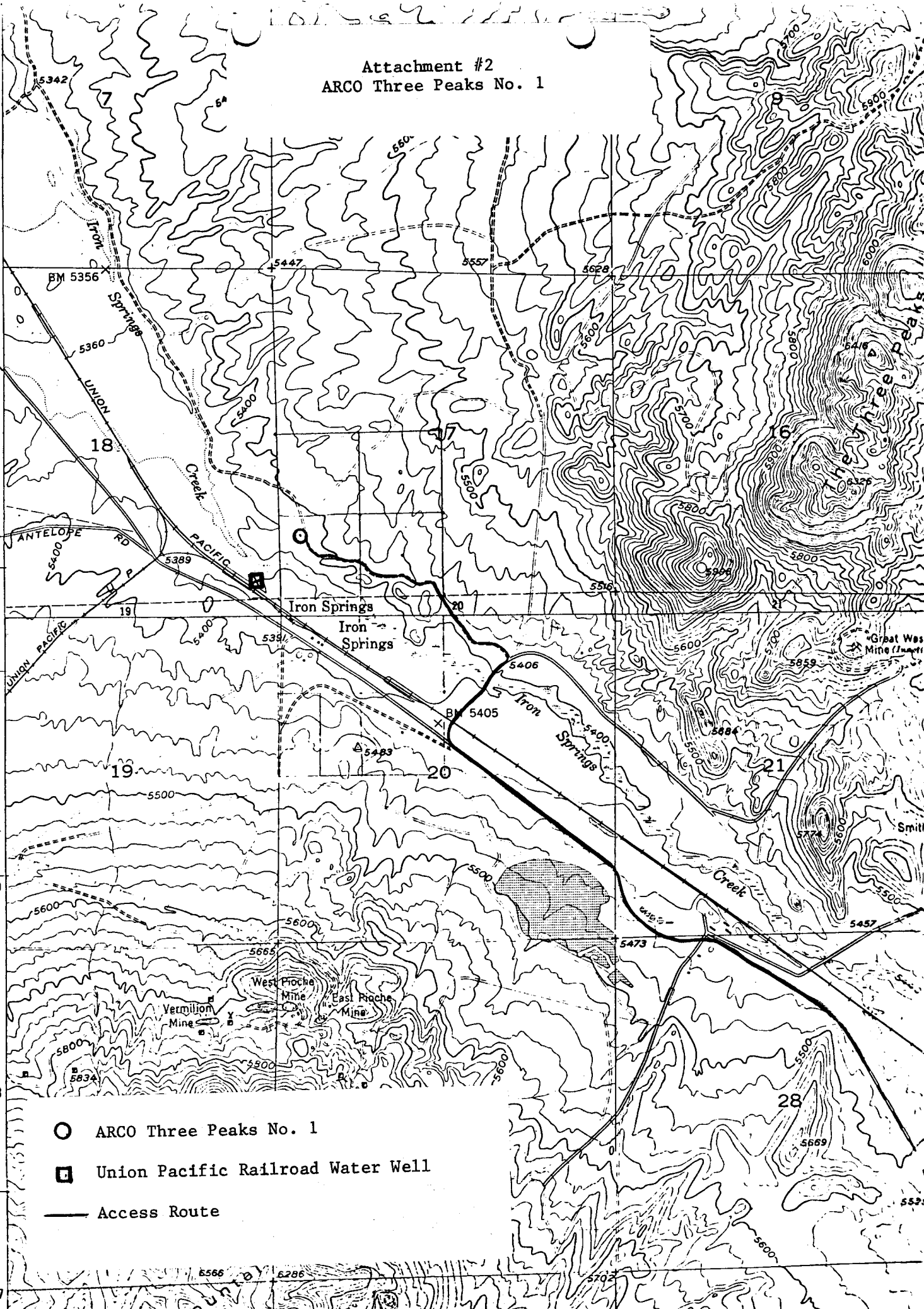


Attachment #2
ARCO Three Peaks No. 1

The Three Peaks Quad

Cedar City NW Quad

41°83'
41°82'
41°80'00"N
41°79'
41°78'
41°77'



- ARCO Three Peaks No. 1
- Union Pacific Railroad Water Well
- Access Route

ATTACHMENT #3
BLOWOUT PREVENTION EQUIPMENT

BOP Specifications

1. All BOP equipment shall be fluid and or mechanically operated.
2. BOP's and all fittings will be in good working condition.
3. Equipment through which the bit must pass shall be at least as large as casing size being drilled.
4. Nipple above BOP shall be at least same size as casing set.
5. Upper Kelly Cock and lower Kelly Cock shall be rated at the BOP working pressure.
6. Floor safety valve (full opening) or drill string BOP with appropriate rated pressure shall be available on rig floor with connections or subs to fit any tool joint in string.
7. Minimum size for choke line shall be 3 inches nominal diameter, minimum size for vent lines downstream of chokes shall be 2 inches nominal, and vent line which by-passes shall be a minimum of 3 inches nominal and shall be as straight as possible.
8. All valves, fittings and lines between the closing unit and the blowout preventer stack should be of steel construction with a rated working pressure at least equal to working pressure rating of the stack. Lines shall be bundled and protected from damage.
9. Rams will be used in following positions: (ARCO Drl. Supv. may reverse ram location)
 - a) 3000 psi WP Minimum

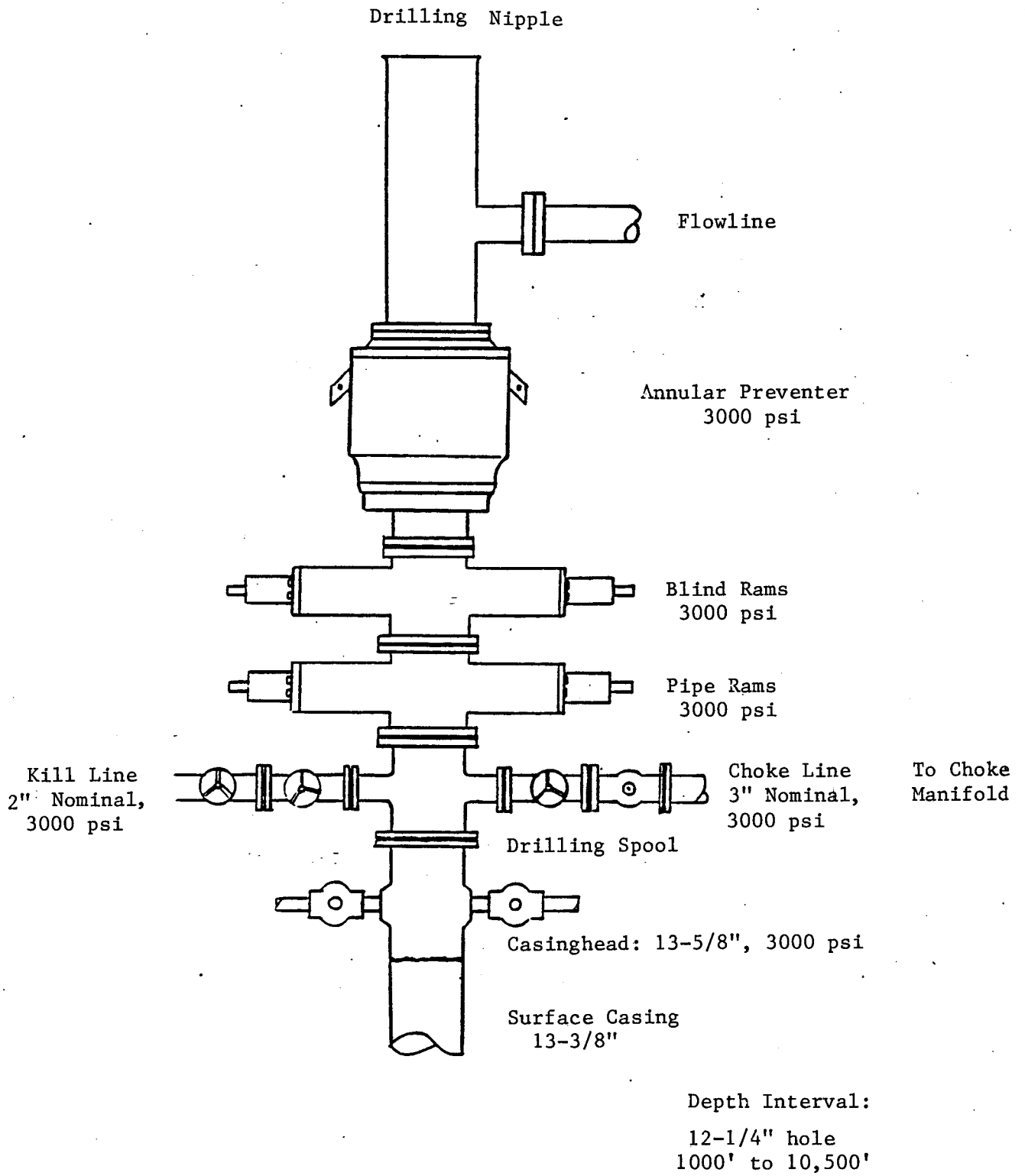
	<u>Drilling</u>	<u>Running Casing</u>
Upper Ram	Blind	Blind
Lower Ram	Drill Pipe	Casing Rams
 - b) 5000 psi WP Minimum

	<u>Drilling</u>	<u>Running Casing</u>
Top Ram	Drill Pipe	Casing Rams
Middle Ram	Blind	Blind
Bottom Ram	Drill Pipe	Pipe Rams
10. Minimum size for kill line is 2 inches nominal.
11. Ram type preventers shall be equipped with extension hand wheels or hydraulic locks.

ALL SPECIFICATIONS LISTED ARE PER API-RP53

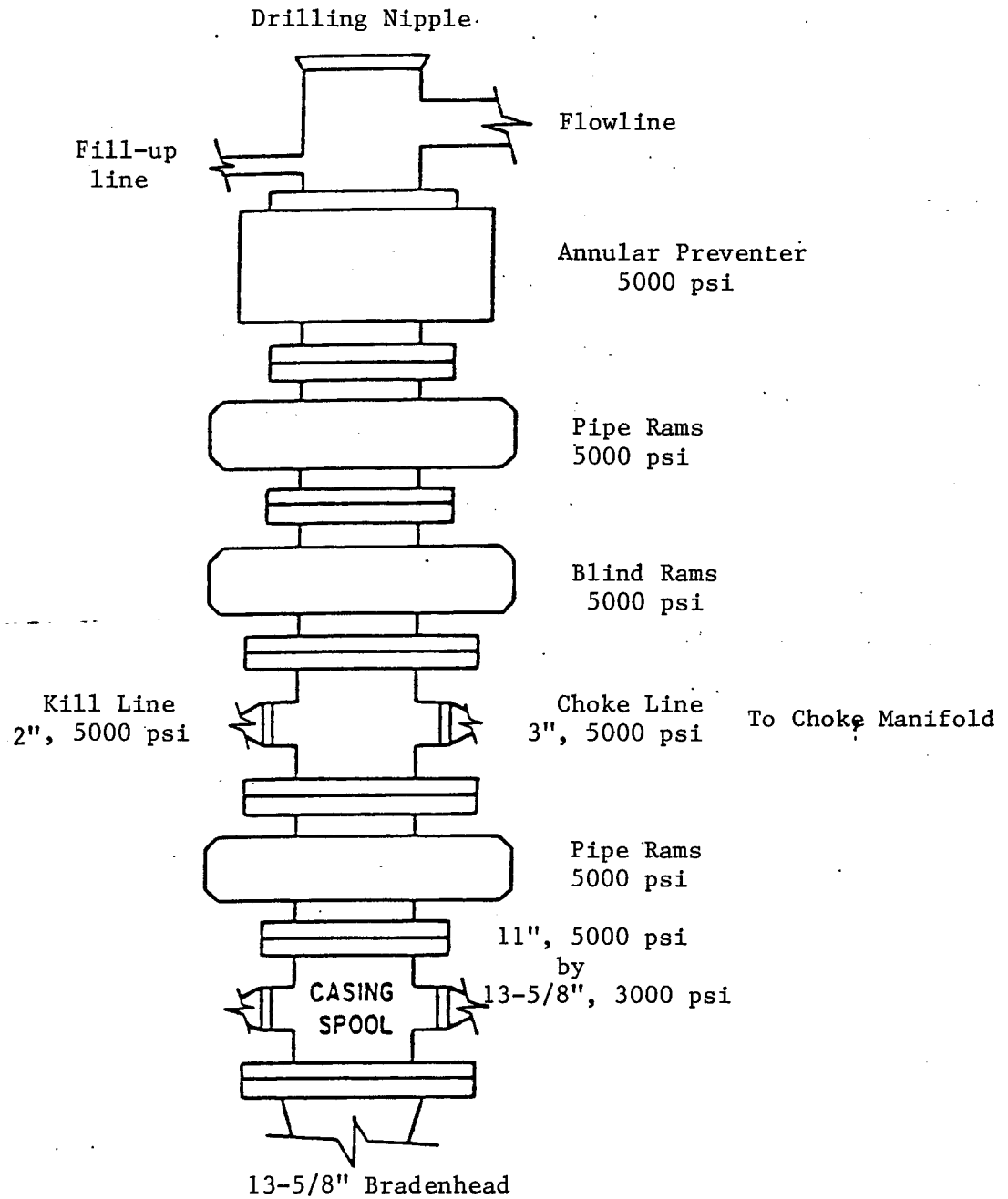
BLOWOUT PREVENTION EQUIPMENT

3000 psi BOP STACK



BLOWOUT PREVENTION EQUIPMENT

5000 psi BOP STACK

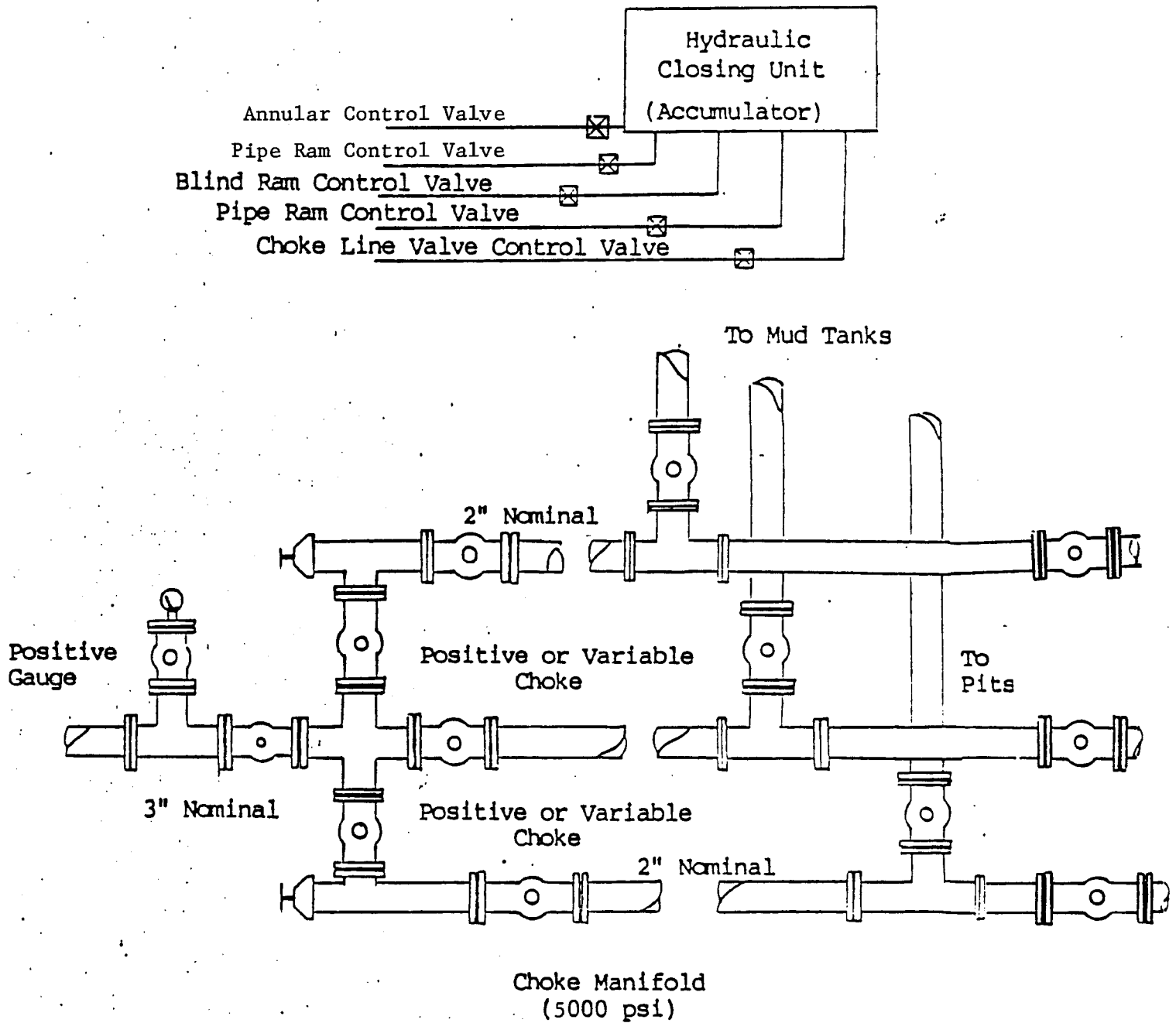


Depth Interval:

8-3/4" hole
10,500' to 15,000'

BLOWOUT PREVENTION EQUIPMENT

CHOKE MANIFOLD



ATTACHMENT #4
Drilling Plan Details

Estimated Formation Tops - (5391' ground level elevation)

Alluvium	- Surf	Moenkopi	- 8475'
Iron Springs	- 100'	Kaibab	- 10460'
Marshall Crk	- 250'	Toroweap	- 10895'
Carmel	- 300'	Coconino	- 11305'
Quartz-Mon	- 800'	Pakoon	- 12155'
Navajo	- 6300'	Callville	- 13070'
Kayenta	- 7370'	Redwall	- 13790'
Chinle	- 7625'	Devonian	- 14875'
Shinarump	- 8435'	TD	- 15000'

Potential Oil or Gas -

There is hydrocarbon potential in all formations from 6300' to TD

Mud Program -

0 - 1000'	17-1/2" hole	Gel, water, spud mud 8.9 ppg
1000 - 10500'	12-1/4" hole	Air, mist, or foam to 6300' and foam or low solids mud (8.8 ppg) to 10,500'
10500 - 15000'	8-3/4" hole	Low lime mud 8.8 ppg

✓ Note: H₂S possible below 6300'. H₂S safety Equipment
will be on locaion from 5500' to TD.

Logging and Testing -

A full sweep of electric and radioactive logs is intended in the 12-1/4" and 8-3/4" open hole. A velocity survey is intended at TD. Other logs may also be run.

Five cores and five DST's are expected from 6300' to TD.

Note: This well is intended to be an oil producer.

Drilling Plan Details
ARCO Three Peaks #1
Page 2

Blowout Prevention Equipment -

<u>Interval</u>	<u>BOP Working Pressure</u>	<u>Stack Arrangement</u>
1000 - 10500'	3000 psi	S-R-R-A
10500 - 15000'	5000 psi	R-S-R-R-A

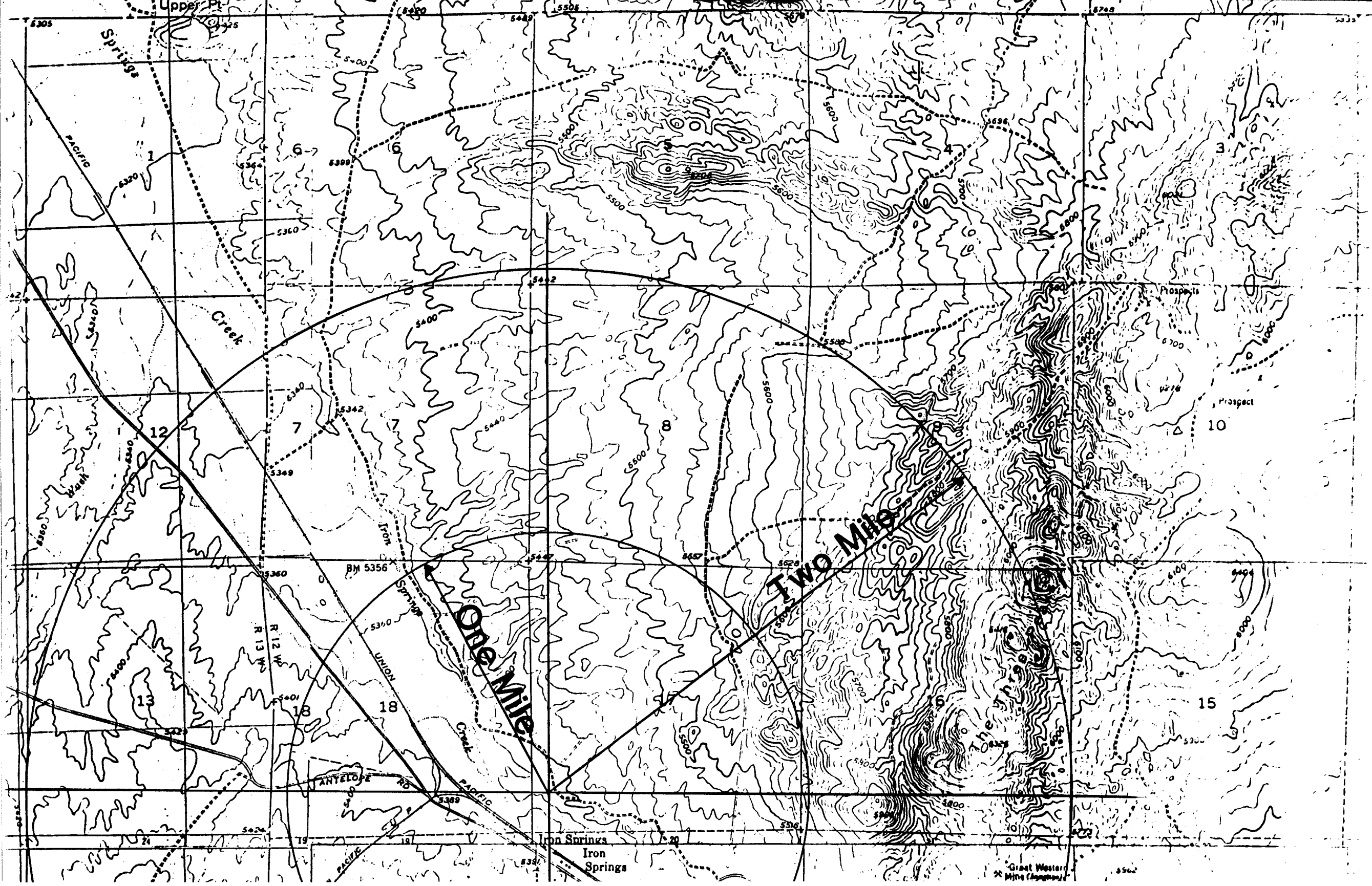
Note: R-S-R-R-A = ram - spool - ram - ram - annular

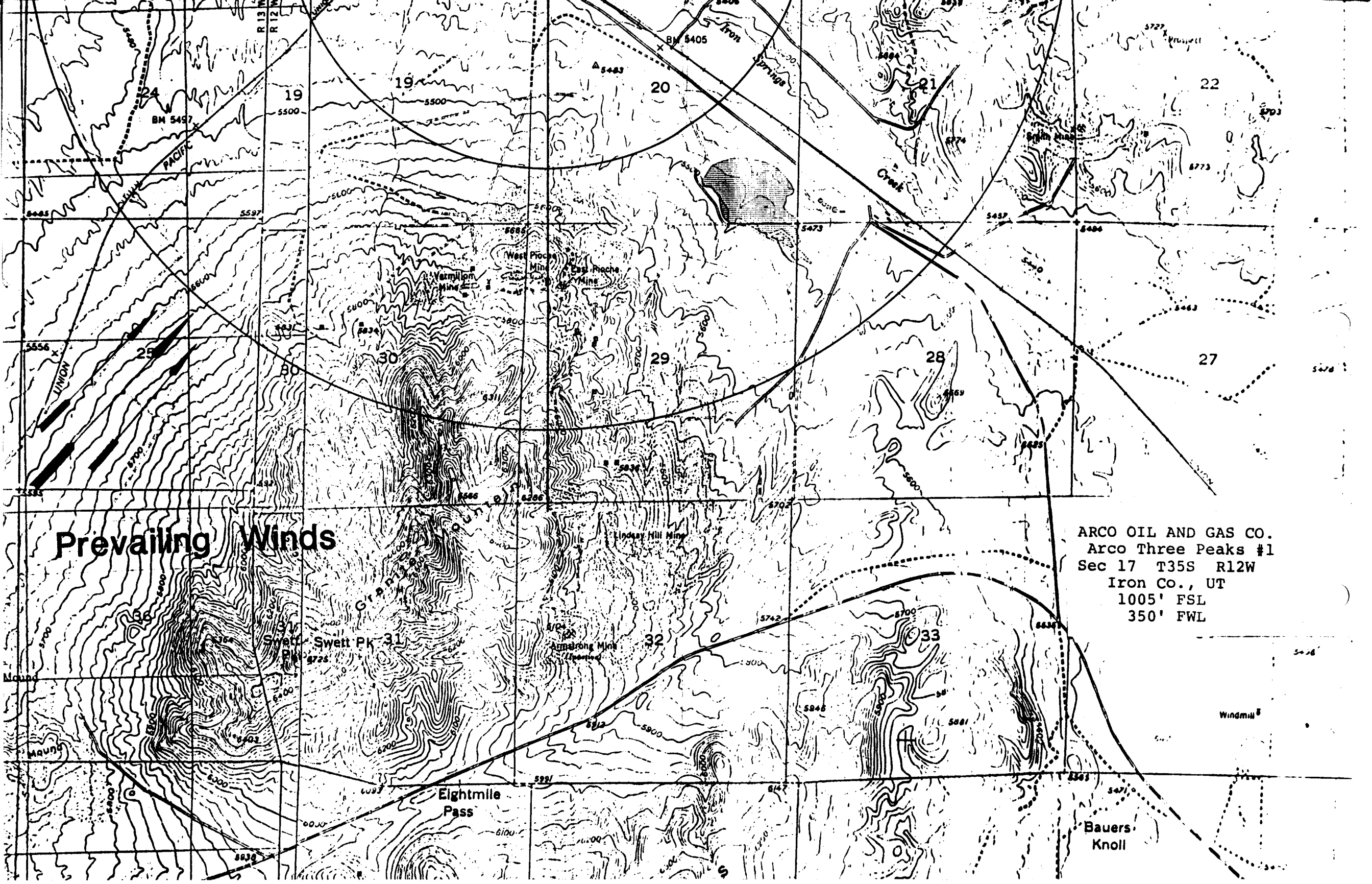
Pipe rams will be operationally checked each 24 hour period. Blind rams and annular preventers will be operationally checked each time pipe is pulled out of the hole. All pressure tests and operational tests of the BOPE will be noted on the official daily drilling reports. Accessories to the BOPE will include an upper and lower kelly cock, floor safety valve, and a choke manifold rated to a working pressure equivalent to that of the ram-type BOP in use.

The BOPE will be hydraulically pressure tested to full working pressure (annular preventers to 50% working pressure) at nipple up, after any use under pressure, and every 30 days.

Start Date and Duration -

The well is intended to spud on March 15, 1984. We expect to reach TD after 188 days and finalize evaluation and completion (or P & A) in 229 days total (approximately October 31, 1984).





Prevailing Winds

ARCO OIL AND GAS CO.
Arco Three Peaks #1
Sec 17 T35S R12W
Iron Co., UT
1005' FSL
350' FWL

Bauers
Knoll

OPERATOR Arco Oil & Gas Co. DATE 2/14/84
WELL NAME Arco Three Peaks #1
SEC S 17 T 35S R. 12W COUNTY Iron

43-021-30006
API NUMBER

Fixed
TYPE OF LEASE

POSTING CHECK OFF:

☐ INDEX

☐ MAP

☐ HL

☐ NID

☐

☐ PI

PROCESSING COMMENTS:

6/8/84

Water - OK as per telephone conversation w/ Suzanne Stone, Arco
Exception Location verification Re cd. 2/14/84. Water Rights Cedar City

CHIEF PETROLEUM ENGINEER REVIEW:

4/20/84 Exception Location: water from URRP well to
be appropriated. H₂S to be controlled from 5500' TL.

APPROVAL LETTER:

SPACING: ☐ A-3 UNIT

☐ c-3-a CAUSE NO. & DATE

☐ c-3-b

☒ c-3-c

SPECIAL LANGUAGE:

1 - Water -
2 (Exception Location)
3 H₂S contingency plan
✓ H₂S equipment available on location @ 5500' TL

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☐ APPLY SPACING CONSIDERATION

☐ ORDER _____

☐ UNIT _____

☐ c-3-b

☒ c-3-c

☒ CHECK DISTANCE TO NEAREST WELL.

☐ CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

☒ IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

☒ VERIFY LEGAL AND SUFFICIENT DRILLING WATER

ARCO Oil and Gas Company
Rocky Mountain District
707 17th Street
Mailing address: P.O. Box 5540
Denver, Colorado 80217
Telephone 303 575 7000



February 14, 1984

RECEIVED
FEB 16 1984

DIVISION OF
OIL, GAS & MINING

Mr. Norm Stout
State Oil & Gas Commission
4241 State Office Building
Salt Lake City, Utah 84114

Dear Mr. Stout:

A spacing exception is requested for the drilling of the ARCO Three Peaks #1 well. This is to be a 15,000' wildcat well located approximately 10 miles northwest of Cedar City in Iron Springs County, Utah.

To tie into existing seismic data, the well is to be situated in the SW/4 SW/4 Sec. 17-T35S-R12W. As can be seen on the attached topographic map, the area's terrain, including a creek to the south and steeply graded terrain to the east, limits possible drillsite locations.

The proposed location was staked at 1005'FSL & 350'FWL, Sec. 17-T35S-R12W. Due to the topographic constraints this location cannot easily or inexpensively be moved to conform with the state spacing regulations for wildcat wells specifically being a distance of 500' from lease lines or 1/4 1/4 section lines. Therefore, it is requested ARCO be granted a spacing exception for this location.

It should be noted that all oil and gas leases within a radius of 660' of the proposed location are common with the ownership of the oil and gas leases under the proposed location, they are 100% ARCO leasehold interest. (ARCO Lease No.'s U-14181A, U-14178A, U-14227A, U-14231A,B)

Please find attached a topographic map showing the proposed location and surrounding area. If further information is necessary or you have any questions, please feel free to call me at (303)293-1077.

Sincerely,

Suzanne M. Barnes
Drilling Engineer

Attachment
SMB/glc

Attachment #1
Spacing Exception Request
ARCO Three Peaks #1 Well

Proposed Location
1005' FSL & 350' FWL
Section 17-T35S-R12W
Iron County, Utah

DIVISION OF
OIL, GAS & MINING

400 000
FEET

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February 20, 1984

Arco Oil and Gas Company
a Division of Atlantic Richfield Company
P. O. Box 5540
Denver, Colorado 80217

RE: Well No. Arco Three Peaks #1
SWSW Sec. 17, T. 25S, R. 12W
1005' PSL, 350' FWL
Iron County, Utah

Gentlemen:

Approval to drill the above referenced gas well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

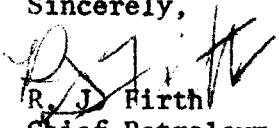
1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify R. J. Firth, Chief Petroleum Engineer, Telephone (801) 533-5771 (Office), 571-6068 (Home).
4. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-021-30006.

Sincerely,


R. J. Firth
Chief Petroleum Engineer

RJF/as
cc: Branch of Fluid Minerals

DIVISION OF OIL, GAS AND MINING

SPLUDDING INFORMATION

NAME OF COMPANY: ARCO OIL & GAS COMPANY

WELL NAME: ARCO THREE PEAKS #1

SECTION SWSW 17 TOWNSHIP 35S RANGE 12W COUNTY IRON

DRILLING CONTRACTOR HARDROCK RAT HOLE

RIG #

SPLUDDED: DATE 6-4-84

TIME

How RAT HOLE DIGGER

DRILLING WILL COMMENCE ROTARY ^{CHASE} ~~CASE~~ DRILLING #5, ^{Approx.} 6-13-84

REPORTED BY SUZANNE BARNES

TELEPHONE # 303 293-1077

DATE 6-11-84 SIGNED AS

GEORGE GOWARD, CONSULTANT. — Rig Telephone 586-3076
ADVISED OF START OF DRILLING, 9AM, 6/14/84
CHASE #5 Drilling Contractor

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
"APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. FEE	
2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217		7. UNIT AGREEMENT NAME Iron Springs Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1005' FSL & 350' FWL		8. FARM OR LEASE NAME ARCO Three Peaks	
		9. WELL NO. 1	
		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SUBST OR AREA 17-35S-12W	
14. PERMIT NO. 43-021-30006	15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5391' GL	12. COUNTY OR PARISH Iron	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>H₂S Plan</u>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Attached please find a Hydrogen Sulfide Contingency Plan
for the above referenced well.

RECEIVED

JUN 21 1984

DIVISION OF OIL
GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

W.A. WaltherTITLE Operations ManagerDATE 6-19-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

HYDROGEN SULFIDE
CONTINGENCY PLAN

ARCO OIL AND GAS COMPANY
ARCO Three Peaks #1
Sec 17 T35S R12W
Iron County, Utah

RECEIVED

JUN 21 1984

DIVISION OF OIL
& GAS

1005' FSL

350' FWL

T A B L E O F C O N T E N T S

1.	GENERAL	1
	- H ₂ S Table of Toxicity	2
	- H ₂ S First Aid Procedures	4
2.	PURPOSE OF PROGRAM	7
3.	OPERATING PROCEDURES	8
4.	PROCEDURE PROGRAM	11
5.	H ₂ S EMERGENCY PROCEDURES	13
6.	IGNITING THE WELL	14
7.	EQUIPMENT LIST	17
8.	EMERGENCY PHONE NUMBERS	18
	- AREA RESIDENTS AND/OR ANY FREQUENT USERS OF THE TWO MILE RADIUS	
9.	MAPS, ECT.	Attachments

Checklist for Drilling or Workover in H₂S Environment (pending approval of proposed NTL-10)

Items 1-4 to be shown on site layout diagram (part 9 of NTL-6 13-point checklist).

1. Two safety briefing areas at least 200 feet from wellhead and arranged so that at least one area will always be upwind of the well at all times. Site Plan
2. Direction of prevailing winds. Site Plan
3. Wind sock locations. (Minimum of 2) (NTL-10, II-A (4)) Site Plan
4. A second emergency escape route from the location. (Flagged trail minimum) Pg. 12 & Site Plan
5. Number, types, and storage locations of H₂S respirators for personnel, and number of personnel to be expected at any one time. Pg. 8 & Site Plan
6. H₂S detector locations (should at least include cellar or bell nipple and mud tanks at shale shaker). Type and location of audible, visual alarm to be used. (NTL-10, II-A(3)) Pg. 12 & Site Plan
7. H₂S evacuation and emergency training procedures and frequency. (NTL-10, II-A-(1)(b)) Pg. 7, 9 & 10
8. Area residents within a two-mile radius, and agencies to be notified in an emergency (contingency plan). (NTL-10, I-D) Pg. 20
9. Types and quantities of mud additives and scavengers to be available at location for H₂S operations.
10. Design features and operational procedures to be used to protect the drill string, casing strings, wellhead, BOP's, choke lines and manifold and other well-killing equipment in H₂S environments. (A certification by the operator on the APD that all equipment meets standards for H₂S service is acceptable for compliance.)
11. Appropriate warning signs and flags on all access roads to location. (NTL-10, II(4)) Site Plan
12. Provision for blocking or monitoring access to location during critical operations. Pg. 12
13. Ventilation fan under rig floor. Pg. 12
14. In event of uncontrolled blowout, which local official has authority to ignite flow? Pg. 14-15
15. Swabbing or drillstem testing fluids containing H₂S should be through a separator to permit flaring of gas. Flare should have continuous pilot light to ensure ignition of all such gas. Pg. 11

NOTE: This checklist was designed by the USGS and is in the stages of final ratification; some changes may follow.



Suite 2030 1675 Broadway Denver, Colorado 80202 (303) 825-1506

GENERAL

DESCRIPTION OF HYDROGEN SULFIDE GAS:

H_2S is a colorless gas which smells similar to rotten eggs in low concentrations. In large concentrations or over long periods of exposure, the sense of smell may be paralyzed. H_2S is extremely toxic gas that must be treated with extreme care to prevent injury to people. H_2S is heavier than air (specific gravity = 1.19) and on still days tends to accumulate in low places. This accumulation could build up and lead to dangerous concentrations. However, if the H_2S gas is warmer than air, it will tend to rise until cooled off and could affect workers above the escaping source.

TOXICITY

Hydrogen Sulfide is extremely toxic (poisonous). It is almost as toxic as hydrogen cyanide. It produces irritation to the eyes, throat and respiratory tract. The sense of smell can be lost in 2 - 15 minutes in low concentrations due to paralysis of the olfactory nerve. The sense of smell can be lost in 60 seconds or less, at higher concentrations. Susceptibility to H_2S poisoning varies according to the number of exposures. The second exposure being more dangerous than the first.

The result of inhalation of H_2S may be strangulation in a few seconds of exposure to high H_2S concentrations. This produces symptoms such as panting, pallor, cramps,

paralysis of the pupil, and loss of speech. This is generally followed by immediate loss of consciousness. Death may occur quickly from respiratory and cardiac paralysis. One deep sniff of high concentration can cause death. Coughing, eye burning and pain, throat irritation, and sleepiness come from exposure to low concentrations.

The two following charts list some of the toxic characteristics of H_2S .

(SEE FOLLOWING PAGE)

TOXICITY OF HYDROGEN SULFIDE GAS

<u>Grains/100</u> <u>Std. Cu. Ft.</u>			
10 ppm = 1/1000 of 1%	0.65		Can smell Safe for 8 hours exposure
100 ppm = 1/100 of 1%	6.48		Kills smell in 3 to 15 minutes May sting eyes and throat
200 ppm = 2/100 of 1%	12.96		Kills smell shortly Stings eyes and throat
500 ppm = 5/100 of 1%	32.96		Loses sense of reasoning and balance Respiratory paralysis in 30 to 45 minutes Needs prompt artificial resuscitation Will become unconscious quickly (15 minutes maximum)
700 ppm = 7/100 of 1%	45.36		Breathing will stop and death result if not rescued promptly Immediate artificial resusci- tation
1,000 ppm = 1/10 of 1%	64.80		Unconscious at once PERMANENT BRAIN DAMAGE MAY RESULT UNLESS RESCUED PROMPTLY

TOXICITY OF HYDROGEN SULPHIDE TO MEN

H ₂ S PER CENT (PPM) **	0-2 MINUTES	2-15 MINUTES	15-20 MINUTES	30 MINUTES 1 HOUR	1-4 HOURS	4-8 HOURS	8-48 HOURS
0.005 (50) 0.020 (100)				Mild Conjuncti- vitis; respira- tory tract irri- tation			
0.010 (100) 0.015 (150)		Coughing; irritation of eyes; loss of sense of smell	Disturbed respiration; pain in eyes Sleepiness	Throat irrita- tion	Salivation and mucuous discharge; sharp pain in eyes; coughing	Increased symptoms*	Hemorrhaging and death
0.015 (150) 0.020 (200)		Loss of sense of smell	Throat and eye irrita- tion	Throat and eye irrita- tion	Difficult breathing; blurred vision; light shy.	Serious irritating effects	Hemorrhaging and death
0.025 (250) 0.035 (350)	Irritation of eyes; loss of sense of smell	Irritation of eyes	Painful secretion of tears; weariness	Light shy; nasal catarrh pain in eyes; difficult breathing	Hemorrhage and death*		
0.035 (350) 0.045 (450)		Irritation of eyes; loss of sense of smell	Difficult respiration coughing; irritation of eyes	Increased irritation of of eyes and nasal tract; dull pain in head; weariness; light shy	Dizziness; weakness; increased irritation; death	Death*	
0.050 (500) 0.060 (600)	Coughing; collapse and unconscious- ness	Respiratory disturbances; irritation of eyes; collapse	Serious eye irritation; palpitation of heart; few cases of death*	Severe pain in eyes and head; dizziness; trem- bling of extrem- ities; great weakness and death*			
0.060 (600) 0.070 (700)	Collapse* unconscious- ness;	Collapse* unconsciousness;					
0.080 (800) 0.100 (1000) 0.150 (1500)	death*	death*					

* Data secured from experiments of dogs which have a susceptibility similar to men. ** PPM - parts per million

H₂S FIRST AID PROCEDURES

TREATMENT

1. Victim should be removed to fresh air immediately by rescuers wearing respiratory protective equipment. Protect yourself while rescuing.
2. If the victim is not breathing, begin immediately to apply artificial respiration. (See page 6 for the chances for life after breathing has stopped.) If a resuscitator is available let another employee get it and prepare for use.
3. Treat for shock, keep victim warm and comfortable.
4. Call a doctor. In all cases, victim of poisoning should be attended by a physician.

ARTIFICIAL RESPIRATION

Recommended by the American National Red Cross



If victim is not breathing, begin some form of artificial respiration at once. Wipe out quickly any foreign matter visible in the mouth, using your fingers or a cloth wrapped around your fingers.

Mouth-to-Mouth (Mouth-to-Nose) Method



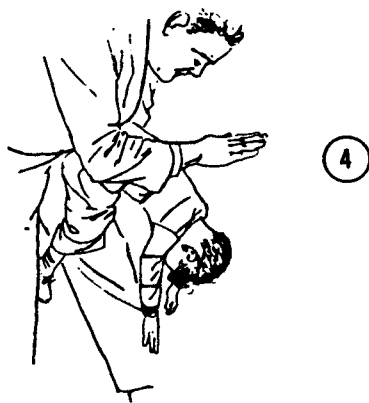
Tilt victim's head back (Fig. 1). Pull or push the jaw into a jutting-out position (Fig. 2).



If victim is a small child, place your mouth tightly over his mouth and nose and blow gently into his lungs about 20 times a minute. If victim is an adult (see Fig. 3), cover the mouth with your mouth, pinch his nostrils shut, and blow vigorously about 12 times a minute.

If unable to get air into lungs of victim, and if head and jaw positions are correct, suspect foreign matter in throat. To remove it, suspend a small child momentarily by the ankles or place child in position shown in Fig. 4, and slap sharply between shoulder blades.

If the victim is adult, place in position shown in Fig. 5, and use same procedure.



D O Y O U K N O W

THERE IS NO TIME TO WASTE
WHEN BREATHING STOPS!

RESCUE BREATHING MUST
BE STARTED FAST!!

After Breathing is Stopped for: The Chances for Life are:

1 Minute	98 out of	100
2 Minutes	92 out of	100
3 Minutes	72 out of	100
4 Minutes	50 out of	100
5 Minutes	25 out of	100*
6 Minutes	11 out of	100*
7 Minutes	8 out of	100*
8 Minutes	5 out of	100*
9 Minutes	2 out of	100*
10 Minutes	1 out of	100*
11 Minutes	1 out of	1,000*
12 Minutes	1 out of	10,000*

* Irreparable brain damage starts at about the fifth minute.

L E A R N H O W T O U S E
L I F E S A V I N G E Q U I P M E N T

HYDROGEN SULFIDE CONTINGENCY PLAN

ARCO OIL AND GAS COMPANY

ARCO Three Peaks #1
Sec 17 T35S R12W
Iron County, Utah

This plan provides for personnel safety programs, precautionary measures, safety equipment and emergency procedures, and sets forth responsibilities and duties pertaining to drilling in a sour gas area.

To be effective, the plan requires the cooperation and effort of each person participation in the drilling of an H₂S well. Each person must know his responsibilities as emergency and safety procedures. He should thoroughly understand and be able to use with accuracy all safety equipment while performing his normal duties, if the circumstance should arise. He should therefore familiarize himself with the location of all safety equipment and check to see that it is properly stored, easily accessible at all times, and routinely maintained.

It is the intention of the Arco Oil and Gas Company and the drilling contractor to make every effort to provide adequate safeguards against harm to person on the rig and in the immediate vicinity from the effects of hydrogen sulfide, which may be released into the atmosphere under emergency conditions. However, the initiative rests with the individual in utilizing the safeguards provided. The ideas and suggestions of the individuals involved in the drilling of these wells are highly welcomed and act as a fundamental tool for providing the safest working conditions possible.

The drilling foreman is required to enforce these procedures. They are set up for your safety and the safety of all others.

PURPOSE

It is Arco Oil and Gas Company's intent to provide a safe working place, not only for its employees, but also for those of other firms who are aiding in the drilling of this well.

There is a possibility of encountering toxic hydrogen sulfide gas. Safety procedures must be adhered to in order to protect all personnel connected with the operation, as well as people living within the area.

Arco Oil and Gas Company's drilling foreman must enforce what may seem to be stringent requirements. This job will become easier by a careful study of the following pages and the use of COMMON SENSE.

OPERATING PROCEDURES

GENERAL

Before this H2S contingency plan becomes operational, the drilling contractor's personnel, necessary service company personnel, and the operator's personnel shall be thoroughly trained in the use of*breathing equipment, emergency procedures, responsibilities and first aid.

Arco Oil and Gas Company shall have a list of all personnel who have been through the special training programs on the drill site. This list shall be supplied by the safety company as personnel are trained.

*THROUGHOUT THIS CONTINGENCY PLAN, BREATHING APPARATUS SHALL BE UNDERSTOOD TO MEAN: 1) SCOTT PRESSURE-DEMAND SELF-CONTAINED AIR BREATHING APPARATUS (Scott Presur-PakII/Back-Pac Style) OR 2) SCOTT SKA-PAX EMERGENCY ESCAPE UNIT (Hip-Pac).

PRIOR TO SPUD

The area within a two mile radius will be checked and phone numbers of residents will be recorded.

A list of emergency stations and phone numbers of Arco's personnel to be contacted in case of an emergency will be posted at the following locations:

1. Arco's Drilling Foreman's trailer on the rig.
2. Drilling Contractor's Toolpusher Office.

All safety equipment and H₂S related hardware must be set up as required by Arco, such as location of briefing areas, breathing equipment and etc. All safety equipment must be inspected periodically with particular attention to resuscitators and breathing air facilities.

All personnel on the drill site will be assigned breathing apparatus and if needed, lead acetate ampules. Operator and drilling contractor personnel required to work in the following areas will be provided with breathing equipment connected to a cascade bottled air supply:

- A. rig floor
- B. mud pit
- C. derrick
- D. shale shaker
- E. mud hopper and bulk hopper
- F. any location that anyone will have to work in H₂S

All service companies to be needed on the drill site will be notified of the potential hazard and will furnish safety equipment for their personnel. No service company employee will be allowed to work on the drill site without having breathing equipment.

The Oilind Safety advisor will be responsible for rigging up and monitoring all H₂S continuous recording monitoring-type detectors. These units must be tested and, if necessary as required recalibrated by the Oilind advisor during drilling conditions. In the event that H₂S is detected, or when drilling in a zone containing H₂S, the units will be tested at least once every 12 hours.

DRILLS

Drills will be held once a week to acquaint the crews and service company personnel with their responsibilities and the proper procedures to shut-in a well. After Arco's drilling foreman is satisfied with drill procedures, a drill will be conducted periodically with each crew.

An Oilind Safety advisor will be on duty when drilling begins or as otherwise deemed necessary. He will conduct safety talks and drills, maintain the safety equipment, and advise and carry out the instructions of the drilling foreman. All personnel allowed on the drill site during drilling or testing operations will be instructed in the use of breathing equipment until supervisory personnel are satisfied that they are capable of using it.

After familiarization, each rig crew should perform a drill with breathing equipment. The drill should include getting the breathing equipment, putting it on, and a short work period. A record shall be kept of the crew members drilled and the date of the drill.

Rig crews and service company personnel shall be made aware of the location of spare air bottles, the resuscitation equipment, portable fire extinguishers, and H2S detectors. Knowledge of the location of the H2S monitor is vital in determining a sour gas location and the severity of the emergency situation. In addition, key personnel shall be trained in the use of a resuscitator.

H2S detector ampules shall be available for use by all working personnel. After H2S has been initially detected by any device, periodic inspections of areas of poor ventilation shall be made with a portable H2S detector instrument.

PROCEDURE PROGRAM

SAFETY PROGRAM

A. DRILL SITE

1. The drilling rig should be located to allow prevailing winds to blow across the rig toward the reserve pit.
2. Briefing stations will be provided with a safety equipment trailer at one or more stations. Personnel will assemble at the most upwind station under alarm conditions, or when so ordered by Arco Oil and Gas Company's foreman or the Oilind Safety advisor. Wind socks or streamers will be located for easy view from the rig floor and around the location.
3. Warning signs will be posted on the access road to the location. "NO SMOKING" signs will be posted as well.
4. Swabbing or drillstem testing fluids containing H2S be through a separator to permit flaring of gas. There will be a pilot light for any possible flared gas.

5. One multi-channel automatic H2S monitor will be provided by Oilind Safety and the detector heads will be at the shale shaker, bell nipple, mud hopper, and the rig floor. Should the alarm be shut off to silence the siren, the blinker light must continue to warn of H2S presence. The safety representative will continuously monitor the detectors and will reactivate the alarm, if H2S concentrations increase to a dangerous level.
6. An escape road should be provided which is to be used only in an emergency.
7. Explosion proof electric fans (bug blowers) will be positioned to insure adequate circulation at all critical locations if necessary.
8. If available, commercial telephone service will be provided.
9. A rig intercommunication system will be provided.
10. Road barricades will be used if necessary to block access to the location at all entrances at a safe distance from the well site. Under critical drilling and testing operations, gate guards will be used.

B. GENERAL

1. The Arco Oil and Gas Company's drilling foreman, residing at the well site, will have complete charge of the rig operation and will take whatever action is deemed necessary to insure personnel safety to protect the well, and to prevent property damage.
2. An Oilind Safety advisor should be on location at all times when drilling at the depth H2S may be expected.

H2 S EMERGENCY PROCEDURES

The emergency procedures outlined in this section will be implemented under the following operating conditions:

CONDITION EXTREME DANGER TO LIFE

If, at any time, as much as 20 ppm of H₂S is detected, the following steps will be taken:

- A. The driller shall shut down mud pumps and put on his mask.
- B. The following personnel shall immediately put on their breathing equipment:
 - 1. All personnel on the rig floor
 - 2. All personnel at the mud pits.
 - 3. All personnel required to work below and down wind of the rig floor.
- C. Notify the Arco Oil and Gas Company's drilling foreman and toolpusher that you have H₂S on the monitoring system.
- D. The mud engineer shall run a sulfide determination from the mud flowline.
- E. Immediately begin to ascertain the source of the H₂S and take steps to suppress the H₂S. Drilling will not proceed until the source is determined and the well is circulated. Rig floor and mud pit personnel will keep breathing equipment on while monitoring this circulation.

- F. The supervisors shall make sure all non-essential personnel are out of the potential danger areas. All persons who remain in potential danger areas must utilize the "Buddy System".
- G. Have all personnel to check their safety equipment to see that it is working properly and in the proper location.
- H. Check all gas monitoring devices and increase gas monitoring activities with the portable hand operated H₂S and gas detector units.

DO NOT PANIC

The Arco drilling foreman will assess the situation and assign duties to each person to bring the situation under control.

EMERGENCY PROCEDURES AT THE DRILLING RIG

When the H₂S monitors activate the siren and blinker light, toxic gas is present. DO NOT PANIC

- A. Put on Your Gas Mask!
- B. Render Assistance!
- C. Follow Instructions!

IGNITING THE WELL

A. RESPONSIBILITY

- 1. The decision to ignite the well is the responsibility of the Arco drilling foreman.

In his absence or incapacity, the contractor's toolpusher will assume his responsibilities. In their absence or incapacity, the contract driller will be in charge.

2. The decision to ignite the well is to be made as a last resort when it is clear that...
 - a. There is a definite threat to human life and property.
 - b. There is no hope of containing the well under prevailing conditions.
 - c. Time and circumstances permitting, an attempt should be made to notify the area office. If human life is threatened, the decision must not be delayed.

B. INSTRUCTIONS FOR IGNITING THE WELL

1. Two people are required for the actual igniting operation. Both men will wear self-contained breathing units and will have 200 foot retrieval ropes tied around their waists. One man is responsible for checking the atmosphere for explosive gases with an explosimeter. The other is responsible for lighting the well. Keep personnel not assigned special duties within the "Safe Briefing Area". Those in the "Safe Briefing Area", will be alert to the needs of the two men assigned to ignite the well. Should either of these men be overcome by fumes, they will immediately pull him to safety by the retrieval ropes.

2. The primary method for igniting the well is a 25 mm metortype flare gun. It has a range of approximately 500 feet. If this method fails or well conditions are such that a safer or better method is apparent, then the alternate should be used.
3. If the well is ignited, the burning hydrogen sulfide will be converted to sulfur dioxide which is also poisonous. Therefore, DO NOT ASSUME THAT THE AREA IS SAFE AFTER THE GAS IS IGNITED. CONTINUE TO OBSERVE EMERGENCY PROCEDURES AND FOLLOW THE INSTRUCTIONS OF SUPERVISORS.

CHECK LIST FOR HYDROGEN SULFIDE DRILLING

H₂S warning signs
Resuscitators
Contour map of 2 mile radius area (with wind direction noted)
Map noting location of houses, roads, etc.
List of persons to be evacuated in emergency
Wind socks and poles
Telephone service for rig
List of phone numbers - Sheriff, Ambulance, Hospitals, Doctor
Pressure demand work and rescue packs
Spare 300 cubic foot cylinders and cascade manifold system for
recharging work and rescue packs
Hand operated H₂S detectors
Audio and visual alarm system
Additional location lighting
BOP's dressed for H₂S service
Choke manifold for H₂S service built and annealed in shop
Briefing areas
Sulphur Dioxide detector
First aid kits, additional
Cleaning material for air masks
Flare gun and shells
H₂S inhibitors or scavengers for mud system
Four channel continuous H₂S monitor with sensor probes at the
shale shaker, bell nipple, mud hopper and one channel for
testing.
Explosion proof electric ventilating fans

EQUIPMENT

Hydrogen Sulfide Respiratory Drill Site Unit

- 1 Safety trailer with a cascade system of 15-300 cu.ft. bottles of compressed breathing air complete with high pressure manifolds
- 8 40 cu.ft. self contained breathing apparatus (SCOTT)
- 9 Airline breathing apparatus complete with 7 cu.ft. egress cylinders
- 1 Resuscitator or inhalator
- 1 H₂S pump type gas detector
- 12 1/4" breathing air hose with quick connects
- 300' 3/4" breathing air hose low pressure
- 2 Wind Socks
- 1 Flare gun with cartridges
- 1 Stretcher
- 1 First Aid Kit
- 2 H₂S warning signs
- 1 4' x 4' condition code warning sign with warning flags
- 1 Eyewash Station
- 1 Three channel continuous H₂S monitor c/w sensing heads and cables
- 1 Siren - Explosion Proof
- 1 Warning Light - Explosion Proof

NOTE: Also know, equipment will be supplied to satisfy the number of people on location at any one time.

MAXIMUM NUMBER OF PEOPLE 17.

EMERGENCY NUMBERS

IRON COUNTY, UTAH

AREA CODE 801

Fire Dept.	801/ 586-4042	
Police Dept.	586-6531	
Emergency Ambulance	586-9421	
Hospital (Valley View Med.) (Cedar City)	586-6587	Ex.277
Highway Patrol	586-2786	
Veterinarian (Cedar City)	586-4918	

RESIDENTS

None

EMERGENCY NUMBERS

Continued...

OILIND SAFETY

Evanston Office:

307/ 789-9791 (24 Hr. Serv.)

Wes Tingey

Ross Argyle

Casper Office:

307/ 265-5600 (24 Hr. Serv.)

John Boe

CORPORATE OFFICE

1675 Broadway
Suite 2030
Denver, Co 80202

Office:

303/ 825-1506 (24 Hr. Serv.)

William H. Myers, Jr.

Rob Clark

EMERGENCY NUMBERS

Area Residents (if any within two miles)

THE TWO MILE RADIUS AROUND THE WELL SITE WILL BE CHECKED FOR:

- 1) Area Residents
- 2) Livestock Operations
- 3) Any persons that might have a reason to come into the area.

Stock Owners (if any within two miles)

ARCO OIL AND GAS COMPANY

707 17th Street
Denver, Co 80202
Office:

303/ 293-4600

Jack M. McCarthy, Dist. Drilling Superintendent

Office:
Home:

303/ 293-7127
770-4190

Bill Sartain, Dist. Drilling Supervisor

Office:
Home:

303/ 293-7035
770-7849

Tom Webster, Dist. Drilling Supervisor

Office:
Home:

303/ 293-7037
233-0122

Kwang Park, Dist. Drilling Engineer

Office:
Home:

303/ 293-7102
741-0526

Suzanne Barnes, Drilling Engineer

Office:
Home:

303/ 293-1077

Bud Parker, Dir. of Environmental Safety & Trng.

Office:
Home:

303/ 293-1061
694-3040

Larry Bell, Safety Coordinatior

Office:
Home:

303/ 293-7088
980-4101

TH HOLE
STATE OF UTAH

SUBMIT TRIPLICATE*
(Other instructions on
reverse side)

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for applications to drill or to deepen or plug back to a different reservoir. APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. FEE	
2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA	
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217		7. UNIT AGREEMENT NAME Iron Springs Unit	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1005' FSL & 350' FWL		8. FARM OR LEASE NAME ARCO Three Peaks	
14. PERMIT NO. 43-021-30006		9. WELL NO. 1	
15. ELEVATIONS (Show whether OP, RT, CR, etc.) 5391' GL		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 17-35S-12W	
		12. COUNTY OR PARISH Iron	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) N.O. SPUD ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT* ☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

MI & RU Chase Drilling Rig #5. Dry hole digger set 20" conductor @ 112' KB on 6-6-84. SPUD 17-1/2" hole 6-14-84. Drilled and surveyed ahead.

Water source from water well owned by Utah International in the SE/4 SE/4 Section 18-T35S-R12W, Iron County, Utah.

RECEIVED

JUN 29 1984

**DIVISION OF OIL
GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED

W.A. Walther
W.A. Walther, Jr.

TITLE Operations Manager

DATE 6-22-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> WATER WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NO. FEE
2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NA
3. ADDRESS OF OPERATOR P.O. Box 5540, Denver, Colorado 80217		7. UNIT AGREEMENT NAME Iron Springs Unit
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1005' FSL & 350' FWL		8. FARM OR LEASE NAME ARCO Three Peaks
14. PERMIT NO. 43-021-30006		9. WELL NO. 1
15. ELEVATIONS (Show whether OF, RT, OR, etc.) 5391' GL		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 17-35S-12W
		12. COUNTY OR PARISH Iron
		13. STATE Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>N.O. SETTING CASING</u> <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled ahead to 2424'. Ran 60 jts (2425.2') 13-1/2", 81.4#, S-95, BTC casing and landed @ 2422'. Pumped 30 bbls water and 1805 sx lite with 1/4#/sx celloflake followed by 600 sx Class "B". Displaced cement with 41 bbls mud. Ran 10 jts 1" to 200'. Cemented through 1" with 350 sx Class "B" cement with good circulation. Cement returns to surface. Tested BOP to 250 psi and 3000 psi for 5 mins - OK. Drilled cement and drilling ahead 7-7-84.

RECEIVED

JUL 26 1984

**DIVISION OF OIL
GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED W.A. Walther, Jr. TITLE Operations Manager DATE 7-23-84
W.A. Walther, Jr.
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

Utah
RECEIVED

AUG 13 1984

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

DIVISION OF OIL
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE).....7-04-84.....

OIL CO.:Arco.....

WELL NAME & NUMBER.....Three Peaks #1.....

SECTION.....

TOWNSHIP.....

RANGE.....

COUNTY.....Iron.....

DRILLING CONTRACTOR.....Chase #5.....

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE.....Rick.....

RIG TOOL PUSHER.....

TESTED OUT OF.....Evanston, Wyoming.....

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO:Site Representative.....

.....Utah Oil & Gas.....

ORIGINAL CHART & TEST REPORT ON FILE AT:Evanston.....OFFICE

ENTERPRISES
DOUBLE D TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

Nº 2079

RENTED Arco

DATE 7-4-70

ORDERED BY RICK

LEASE THREE MONTHS WELL NO. #1

Rental begins when tools leave our warehouse and continues until returned there. Rental will be charged as full day.

TRANSPORTATION - TO AND FROM .

DOUBLE D Portable BLOWOUT PREVENTER

First eight hour test period

Additional eight hours or fraction.

Items Tested:

1 BLIND rams to 250/3000 # Csg. to 1000 # Choke Manifold 250/3000 #
2 PIPE rams to 250/3000 # Hydril B O P to 250/1500 # Kelly Cock 250/3000 #
3 PIPE rams to 250/3000 # Choke Line 250/3000 # Safety Valve 250/3000 #
_____ rams to _____ # _____ # _____ #

TEST SUBS 2- 4 1/2" TEST SUBS

OTHER 1- 12" AT TEST PLUG

HAD NUMEROUS LEAKS ON SWACO RENTAL EQUIPMENT (REPAIRED)
CHANGED OUT UPPER KELLY COCK
REPAIRED INSIDE MANUAL VALVE ON KILLLINE (REPAIRED 1 PLATE)
REPAIRED NUMEROUS HYDRAULIC LEAKS ON ACCUMULATOR LINES
ALL BOP EQUIPMENT TESTED & OPERATED GOOD AT
FINISH OF TEST
SET WEAR RING
CLOSED CASING VALVE

We Appreciate Your Business

Thank DAK

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

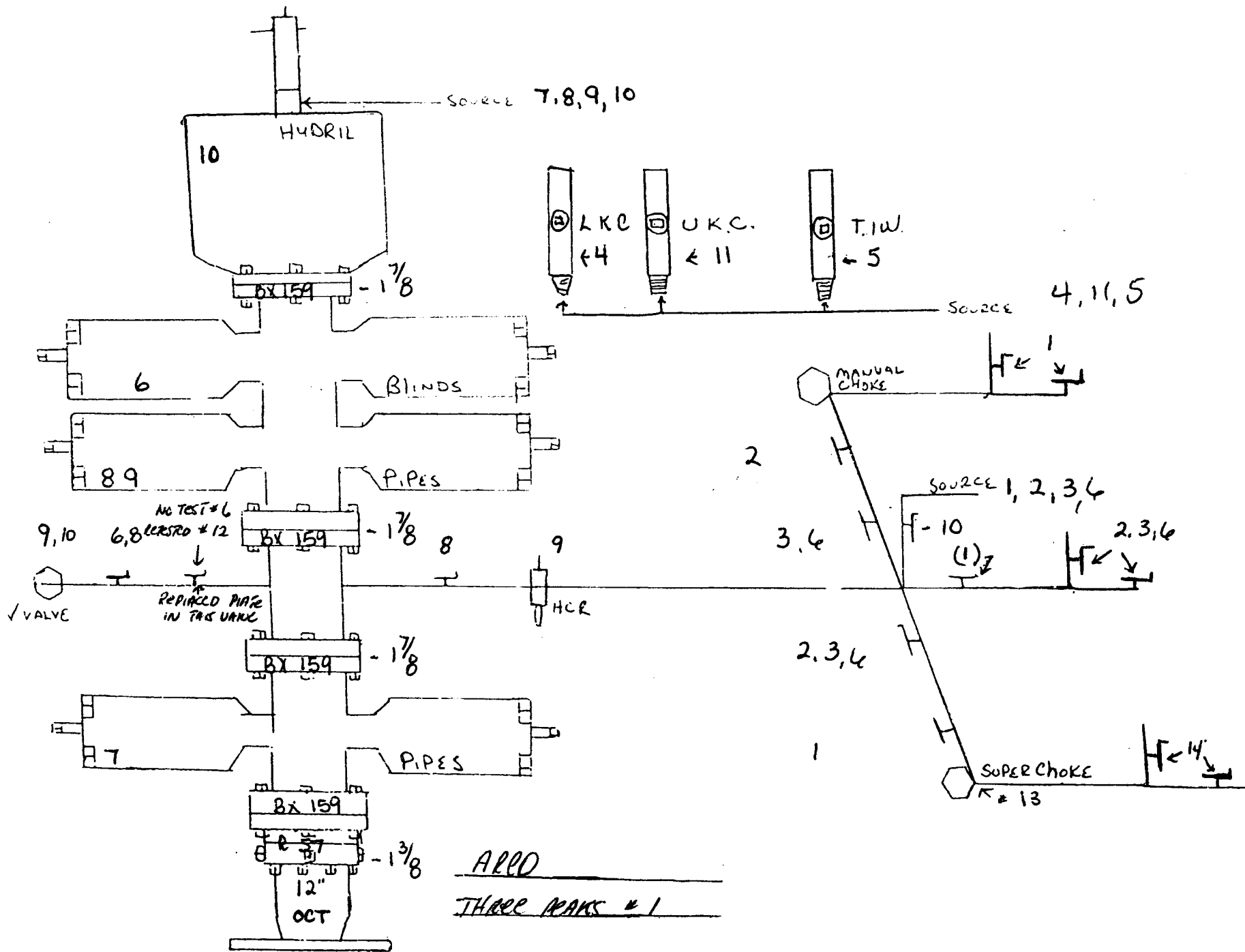
By:

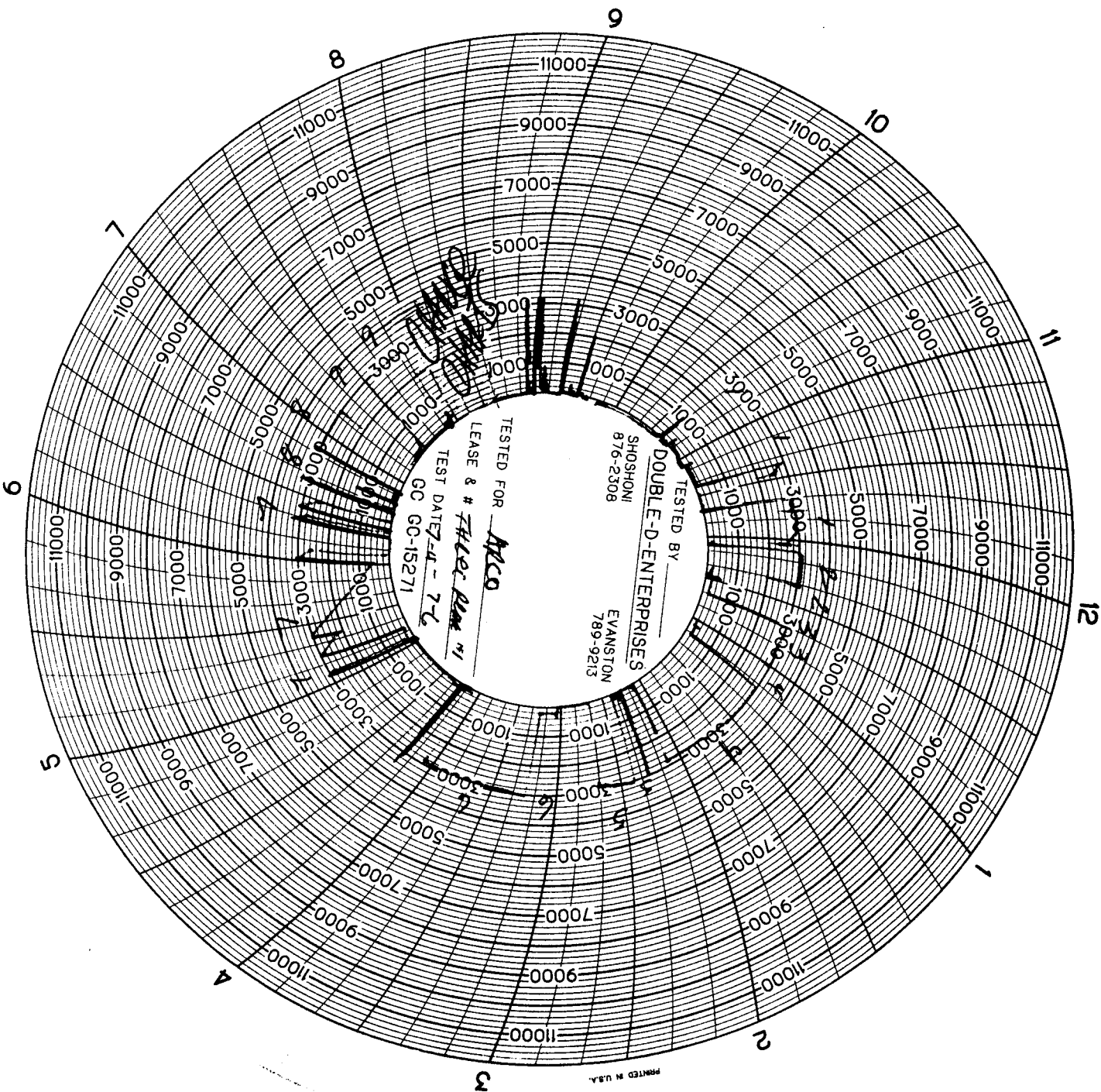
Phil Roach

By:

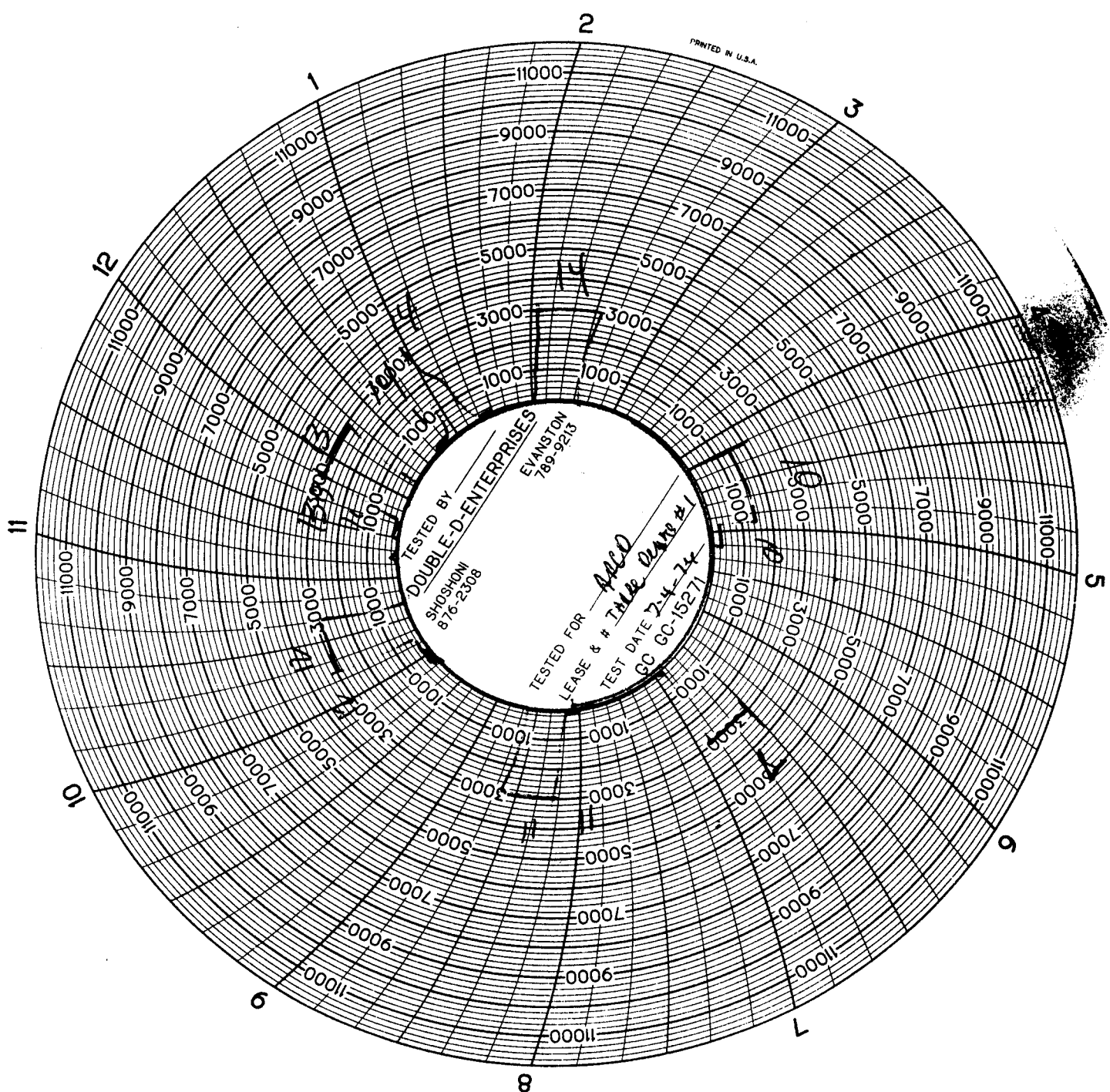
Company		Lease and Well Name #	Date of test	Rig #
ARCO		THREE PEAKS # 1	7-4-76	CHASE #5
Test #	Time			
		Tig up to test manifold		
1 LOW	10:34 ^{PM} - 10:55	LEAK ON SUPERCHOKE CONNECTION, BREAK OFF, TAPE & RETIGHTEN		
1 LOW	10:55 - 11:10	TESTED OK @ 250 LBS		
1 HIGH	11:10 - 11:56	LEAKED HAD TO BREAK OFF GAUGE IN MANIFOLD hose & RETAPE also had to work valves		
1 HIGH	11:56 - 12:11	TESTED OK @ 300 LBS		
2 LOW	12:19 - 12:32	OK		
2 HIGH	12:32 - 12:47	OK		
3 LOW	12:55 - 1:07	OK		
3 HIGH	1:03 - 1:18			
	1:18 - 2:37	work valves & Kelly cocks, picked up Kelly rigged up to test Kelly		
4 LOW	2:37 - 2:42	lower Kelly cock OK		
4 HIGH	2:42 - 2:57	"		
	2:57 - 3:28	ATTEMPT TO TEST UPPER KELLY COCK		
5 LOW	3:28 - 3:34	SAFETY VALVE OK		
5 HIGH	3:34 - 3:49	" OK		
	3:49 - 5:24	ATTEMPT TO TEST UPPER KELLY COCK NO TEST SET KELLY BACK TIED IN TO TEST BOPS		
6 LOW	5:24 - 5:29	LOW OK PLIND ROOMS ETC SEE BOP DIAGRAM		
6 HIGH	5:29 - 7:10	Bled off 600 LBS ACCUMULATOR OUT OF FLUID FILL & WAIT FOR PRESSURE TO BUILD UP Inside valve and bulking leaking with NO test on this valve at this time SWITCH TO 2ND MANUAL VALVE		
6 HIGH	7:10 - 7:25			
	7:25 - 8:13	ACCUMULATOR LINES HOOKED UP WRONG SWITCH LINES, LINES LEAKED REPAIR		
7 LOW	8:13 - 8:20			
7 HIGH	8:20 - 9:45	ACCUMULATOR OUT OF OIL REFILL GO TO TEST		

Company		Lease and Well Name #	Date of test	Rig #
ALCO		THREE DEAKS #1	7-4-7-6	CHARGE #5
Test #	Time			
8 LOW	9:45-9:51	OK		
8 HIGH	9:51-10:06	OK		
9 LOW	10:19 ^{AM} -10:27	NO TEST AT THIS TIME		
9 LOW	10:27-10:32	OK		
9 HIGH	10:32-10:57	OK		
10 HIGH	11:35-11:50	OK		
10 LOW	11:51-12:10	OK		
7 HIGH	12:17-12:32	OK		
	12:32-1:01	PULL RING		
	1:01-6:54	WAIT ON RIG CREW TO CHANGE OUT UPPER KELLY COCK		
11 LOW	6:54-6:59	OK UPPER KELLY COCK		
11 HIGH	6:59-7:14	OK		
	7:14 ^{PM} -5:53 ^{AM}	WAIT ON PARTS FOR CAMERON VALVE TO SHOW UP AT RIG & WAIT ON SWALO TO RIG UP SUPER CHOKE		
12 LOW	5:53 ^{AM} -5:58	TESTED UPPER CHOKE ON KILGIVE		
12 HIGH	5:58-6:30	OK		
	6:30-7:00	PULL RING SET WORK RING		
12 LOW	7:00-8:05	WORK ON SUPER CHOKES		
13 LOW	8:05-8:10	OK SUPER CHOKES		
13 HIGH	8:10-8:15	OK "		
14 LOW	8:18-8:23	OK VALVE BEHIND SUPER CHOKES		
14 HIGH	8:23-8:38	NO TEST LEAK ON SUPER CHOKES CONN BREAK AND (REPAIRS)		
14 HIGH	8:59-9:14	OK		
		POOL UP RIG DOWN		





PRINTED IN U.S.A.



RECEIVED

DOUBLE "D" ENTERPRISES

AUG 13 1984

B.O.P. Test Report

DIVISION OF OIL
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE) 08-04-84

OIL CO.: Arco

WELL NAME & NUMBER Three Peaks #1

SECTION

TOWNSHIP

RANGE

COUNTY Iron

DRILLING CONTRACTOR Chase #5

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE Jim

RIG TOOL PUSHER

TESTED OUT OF Evanston, Wyoming

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: Site Representative

Utah Oil & Gas

ORIGINAL CHART & TEST REPORT ON FILE AT: Evanston OFFICE

Enterprises
DOUBLE "D" TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

33 N° 1926

RENTED TO

Arco

NO

Rig Chase #5

DATE

8-4-84

ORDERED BY

Jim

LEASE

ThreeBats - Well No 11141

Rental begins when tools leave &
be charged as full day.

TRANSPORTATION - TO AND

DOUBLE D Portable BLOWOUT

First eight hour test period

Additional eight hours or 1

Items Tested:

<u>BLINDS</u> rams to <u>300</u> #	Csg. to <u>300</u> #	Choke Manifold <u>300</u> #
<u>PIPES</u> rams to <u>300</u> #	Hydril B O P to <u>300</u> #	Kelly Cock <u>3000</u> #
<u>P.P.S</u> rams to <u>300</u> #	Choke Line <u>3000</u> #	Safety Valve <u>3000</u> #
_____ rams to _____ #	_____ #	_____ #

TEST SUBS

TWO 4 1/2 IF TEST

OTHER

ONE 12" OCT TEST

ALL TEST HELD 20 MIN.

FOR 5 MIN. ON LOW @ 300 PSI and

15 MIN. @ 3000 PSI

HYDRIL TESTED TO 2500 PSI

CLOSED CASING VALVE WHEN DONE

CLOSED INSIDE MANUAL ON CHOKER

and KILL LINE SO THAT WON'T BAR UP

We Appreciate Your Business

Thanks

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

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Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

By:

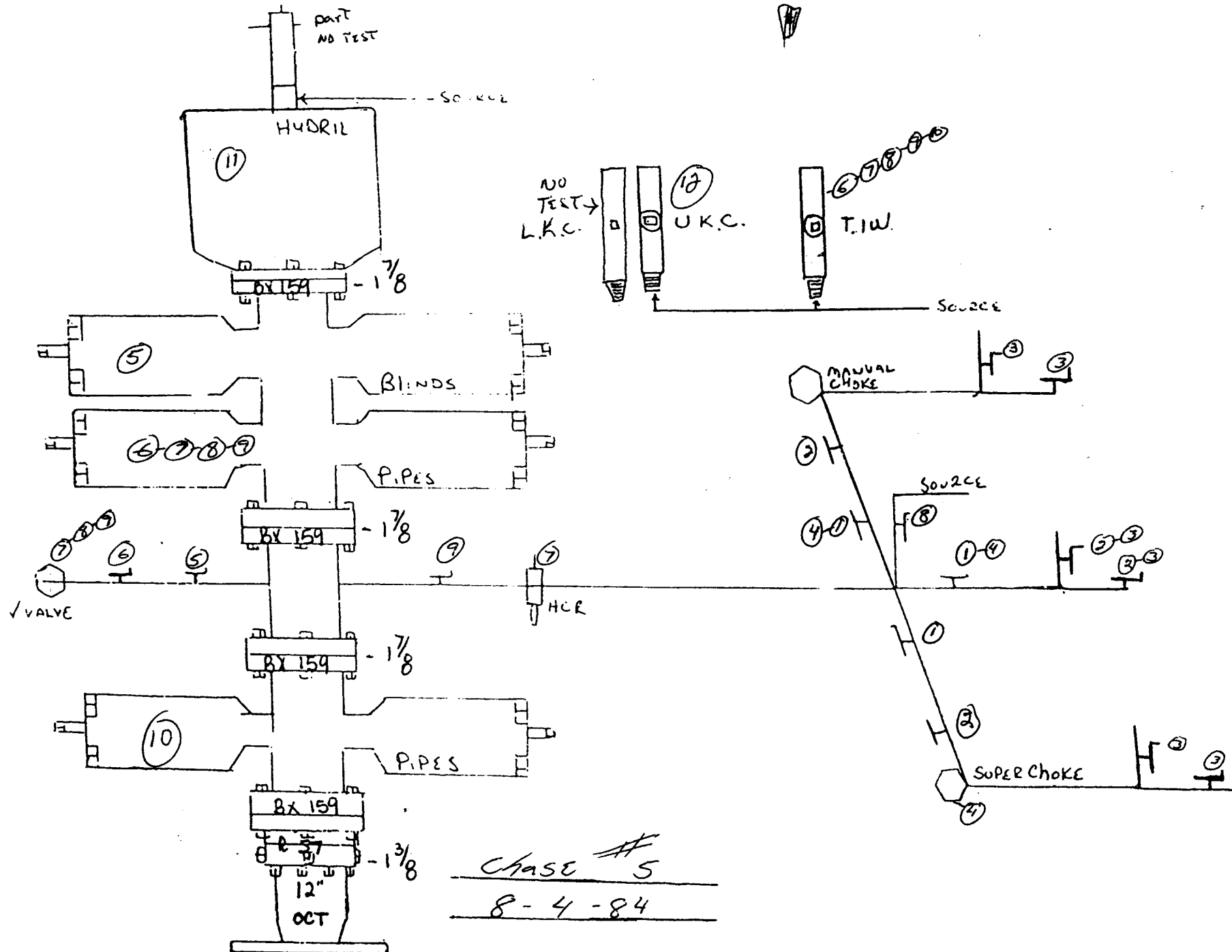
Ronnie Russell

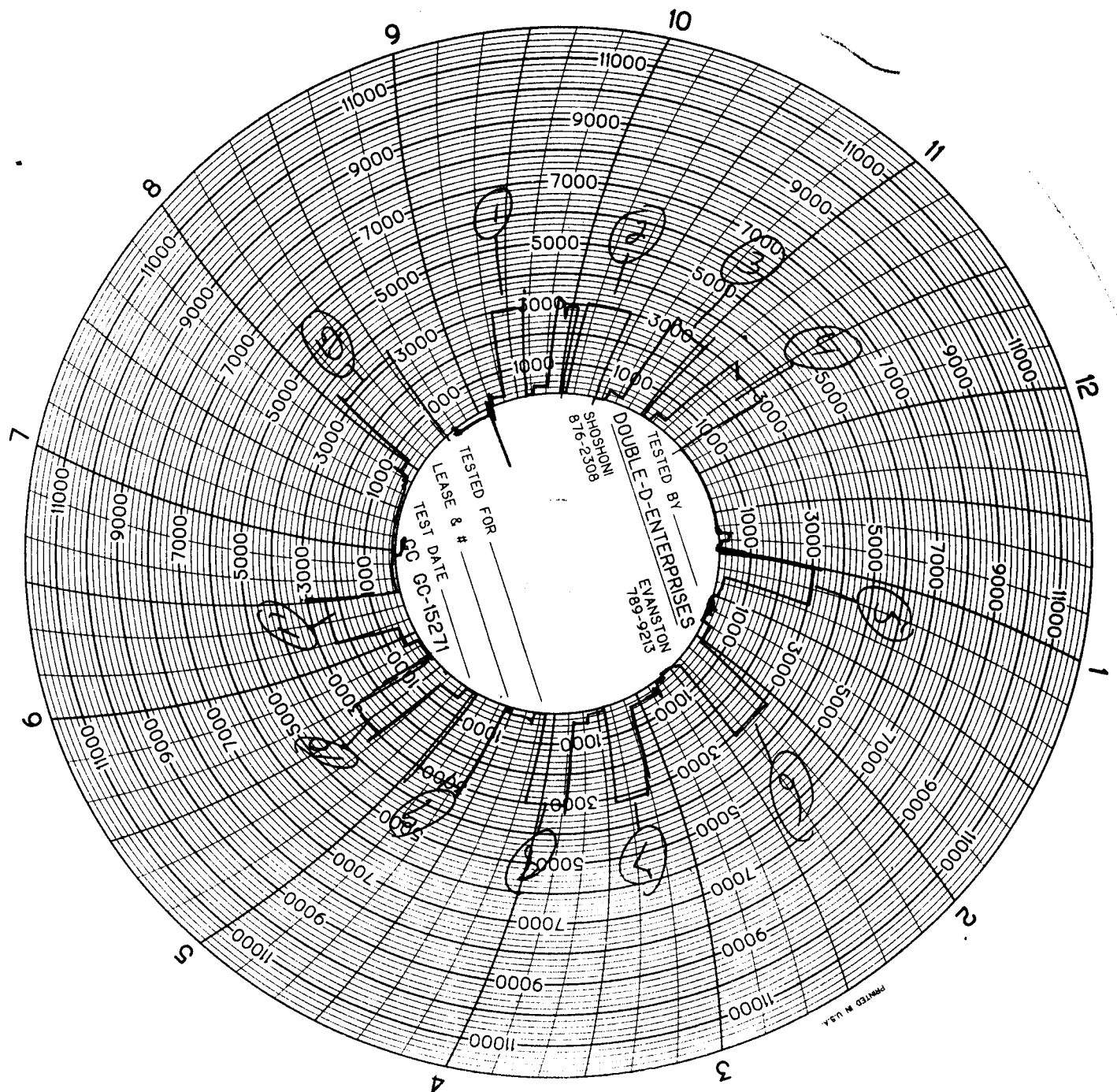
By:

J E Arthur

Company		Lease nd Well Name	Date of test	Rig #
			8-4-84	Chase #5
Test #	Time			
		Got To Rig at 6:00		
	6:00 7:05	All Test Held 5 min low 15 min High Fill Truck with water and Rig up to manifold Line First set of valves out.		
①	7:05 7:25	Test First set of valve on manifold low 300 PSI High 3000		
②	7:25 - 7:50	Test sec. set of valves on manifold low 300 PSI High 3000 PSI Had to wash valves.		
③	8:05 8:25	Test Third set of valves on manifold low 300 PSI High 3000 PSI OK		
④	8:25 8:50	Test Super Choke Low 300 PSI High 3000 PSI OK		
	8:50 10:20	Get Plug up on Floor wait on Rig to lay stuff down Pull wear ring wash in side of stack out set Plug Fill Hole with water and Test Blinds		
⑤	10:20 10:40	Test Blinds First Manual Kill side Low 300 PSI High 3000 PSI		
	10:40 11:00	Open Blinds Run joint Back in to Plug screw in Make Make up T.W.		

Company	Lease and Well Name	Date of test	Rig #
Test #	Time		
(6)	1100 1125	TEST TOP PIPES TIW	
		550. Manual on Kill Line	
		Low 300 PSI OK High 3000 PSI OK	
	1125 1135	Rig down From choke	
		House and Rig HSE up	
		on floor	
(7)	1135 1150	TEST TOP PIPES HCR	
		CHECK VALVE ON KILL LINE	
		Low 300 PSI High 3000 PSI	
(8)	1150 1210	TEST TOP PIPES up Right	
		VALVE CHECK VALVE ON KILL LINE	
		Low 300 PSI OK High 3000 PSI OK	
(9)	1210 1230	TOP PIPES Manual on choke	
		LINE CHECK VALVE ON KILL LINE	
		Low 300 PSI OK High 3000 PSI OK	
(10)	1230 1245	TEST BOTTOM PIPES	
		Low 300 PSI OK High 3000 PSI OK	
(11)	1245 1300	TEST HYDRAIL TO 2500 PSF	
		Low 300 PSI OK High 2500 PSI OK	
	1300 - 1345	HAD HARD TIME Breaking out sub	
	1345 200	TELLY up	
		NO TEST ON LOWER KILL VALVE	
	200 220	TEST LOWER KILL VALVE	
	NO TEST	Low 300 PSI NO TEST High 3000 PSI NO TEST	
		Put TIW VANE ON	
(12)	220 2345	TEST UPPER KILL VALVE	
		Low 300 PSI OK High 3000 PSI OK	





RECEIVED

SEP 21 1984

DIVISION OF OIL
GAS & MINING

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 9-2-84

OIL CO.: ARCO

WELL NAME & NUMBER 3-PEAKS #1

SECTION 17

TOWNSHIP 35S

RANGE 12W

COUNTY IRON, UTAH

DRILLING CONTRACTOR CHASE #5

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE GEORGE GOWARD

RIG TOOL PUSHER RICH ROSENTHAL

TESTED OUT OF EVANSTON, WYO

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: SITE REP.

UTAH OIL & GAS

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON, WYO OFFICE

DOUBLE 'D' ENTERPRISES TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

Nº 2060

RENTED TO

ARCO

NO.

DATE

9-2-84

ORDERED BY

GEORGE GONARD

LEASE

THREE PAKS

WELL NO.

#1

Rental begins when tools leave or be charged as full day.

TRANSPORTATION - TO AND

DOUBLE D Portable BLOWOUT

First eight hour test period

Additional eight hours or fr

Items Tested:

<u>PIPE</u> 300 rams to 3000 #	Csg. to 300 #	Choke Manifold 300 3000 #
<u>BLIND</u> 200 rams to 3000 #	Hydril B O P to 2500 #	Kelly Cock 300 3000 #
<u>PIPE</u> 300 rams to 3000 #	Choke Line 300 3000 #	Safety Valve 300 3000 #

TEST SUBS

2-4 1/2" IF TEST SUBS

OTHER

1-12" OCT PLUG

LOW TESTS OK. 300 PSI 5 MIN EA.

H/I TESTS O.K. 3000 PSI 15 MIN EA.

SET WEAR RING - RIG HAS RETRIEVER

SHUT CASING VALVES WHEN FINISHED

RAM CLOSING TIME 5 SECONDS

ACCUMULATOR PSI-2600

MANIFOLD PSI-2600

ANNULAR PSI-1050

GOOD CREWS-CHASE #5

We Appreciate Your Business

THANKS MIKE B.

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Delivered By

OWNER OR OWNER'S REPRESENTATIVE

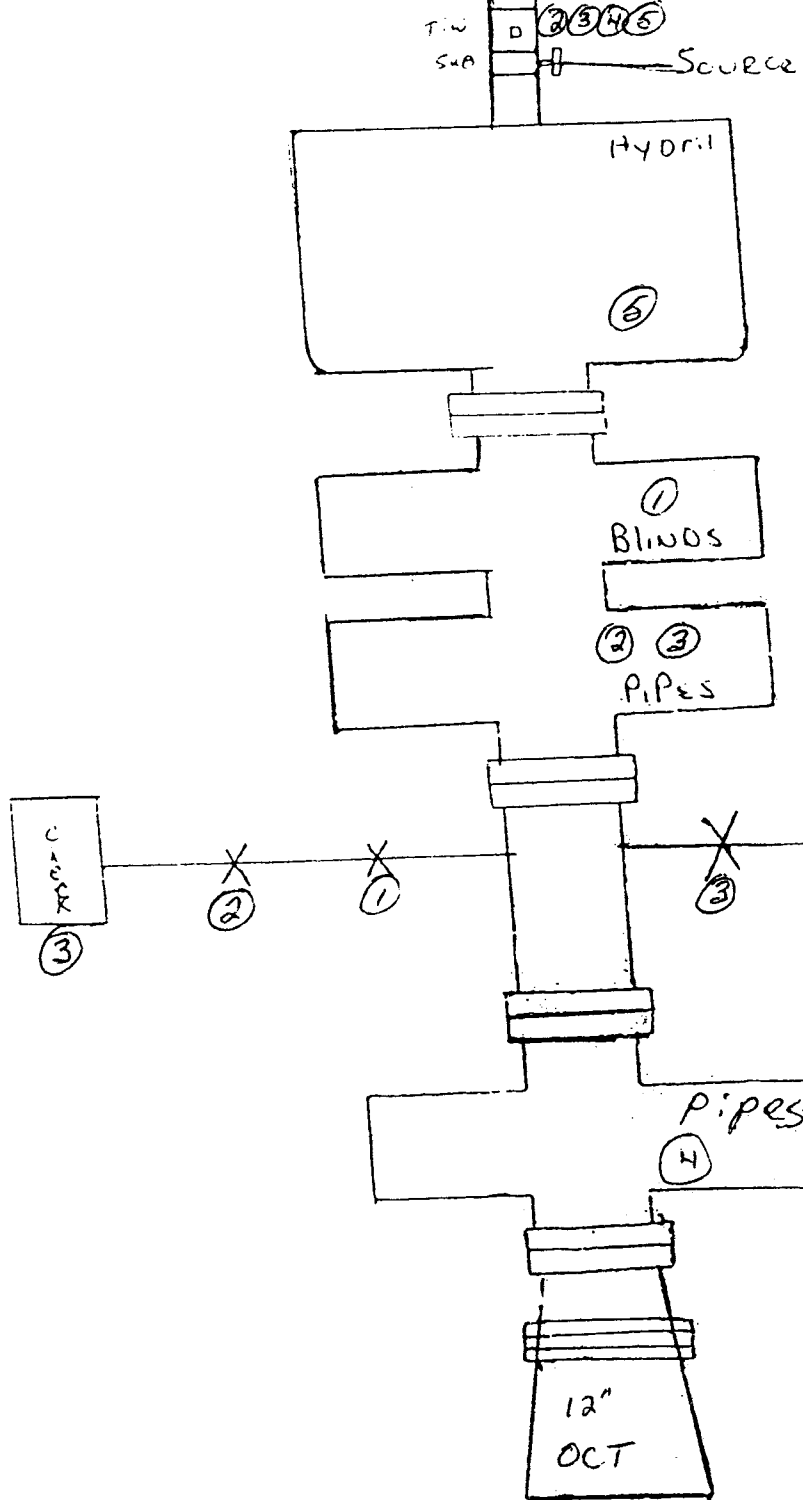
By:

Michael A. Barger

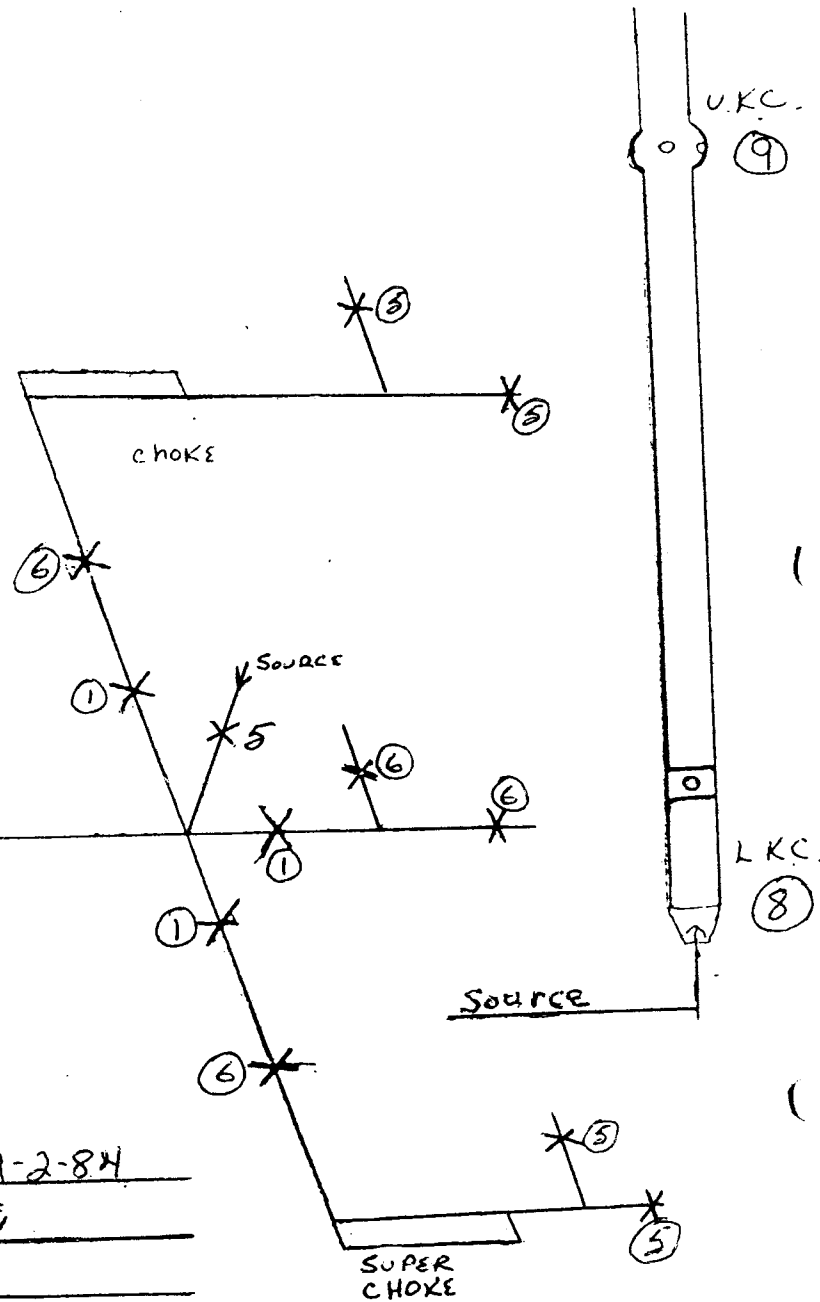
By:

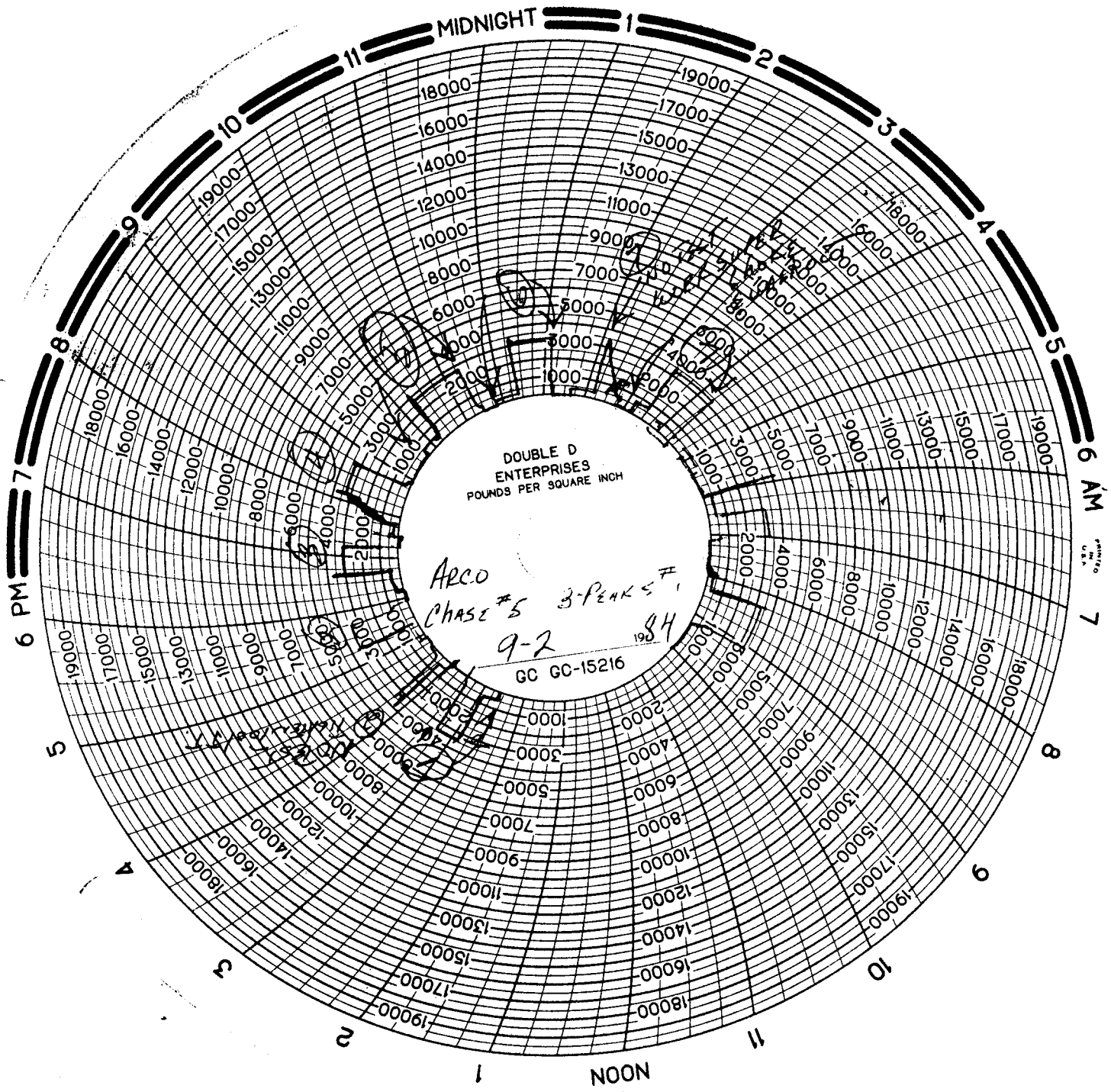
G. F. Howard

Company		Lease and Well Name #	Date of test	Rig #
ARCO		2. PEAKS #1	8-2-84	R.G.
ST #	Time			
	4.30 - 5.00	LOADOUT & TRAVEL TO LOCATION		
	5.00 - 10.30	RIG SH.M. OUT OF HOLE - RIG UP TO MANFOLD, FILL TRUCK		
	10.30 - 11.00	PULL PLUG RING, HOSEOUT STACK, SET PLUG, FILL STACK		
		CLOSE BLINDS, OPEN HCR		
①	11.00 - 11.05	300 O.K. BLINDS, 1 ST MANIFOLD VALVES, 1 ST KILL VALVE		
②	11.05 - 11.20	3000 O.K.		
	11.20 - 11.35	STAB PLUG W/D.P. & T.I.W. VALVE: CLOSE PIPES, HCR		
②	11.35 - 11.40	300 O.K.		
	11.40 - 11.50	3000 NO TEST LEAK @, TOOL JT & T.I.W.		
	11.50 - 12.05	BREAK OUT JT, REDOPE & MAKE UP		
RR ②	12.05 - 12.10	300 O.K. UPPER PIPES, T.I.W., HCR, 2 ND KILL		
②	12.10 - 12.25	3000 O.K.		
	12.25 - 12.30	SWITCH VALVES		
③	12.30 - 12.35	300 O.K. UPPER PIPES, CHECK VALVE, 4" MANUAL T.I.W.		
③	12.35 - 12.50	3000 O.K.		
	12.50 - 12.55	SWITCH RAMS		
④	12.55 - 1.00	300 OK LOWER PIPES T.I.W.		
④	1.00 - 1.15	3000 O.K.		
	1.15 - 1.20	WORK HYDRIL & CLOSE		
⑤	1.20 - 1.25	300 OK. HYDRIL T.I.W. VERTICAL		
⑤	1.25 - 1.40	2500		
⑥	1.40 - 1.45	300 O.K. 2 ND MANIFOLD VALVES - PICKING UP KELLY PULL PLUG		
	1.45 - 2.00	3000 O.K. SET WEAR RING SHUT CASING VALVE		
⑦	2.00 - 2.05	300 OK. SUPER CHOK		
	2.05 - 2.10	3000 NO TEST - CLEAN OUT & FLUSH WORK		
RR ⑦	2.10 - 2.25	3000 O.K. MAKE UP KELLY FOR TEST		
⑧	2.25 - 2.30	300 OK. LOWER KELLY COCK, HAD TO WORK IT - VERY STIFF		
	2.30 - 2.45	3000 O.K.		
	2.45 - 2.50	300 OK. UPPER KELLY COCK		
	2.50 - 3.05	3000 O.K. LOWER KELLY		
	3.05 - 4.00	BREAK DOWN TOOLS & LOADOUT MAKEOUT TICKET		
	4.00 -	TRAVEL TO SHOP		



ARCO 9-2-84
 3-PEAKS #
 CHASE #5





STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" (for such proposals.)OIL WELL ☐ GAS WELL ☒ OTHERNAME OF OPERATOR
ARCO Oil and Gas Company, Division of Atlantic Richfield CompanyADDRESS OF OPERATOR
P.O. Box 5540, Denver, Colorado 80217LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface 1005' FSL & 350' FWL

CONFIDENTIAL5. LEASE DESIGNATION AND SERIAL NO.
FEE6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA7. UNIT AGREEMENT NAME
Iron Springs Unit8. FARM OR LEASE NAME
ARCO Three Peaks9. WELL NO.
110. FIELD AND POOL, OR WILDCAT
Wildcat11. SEC., T., R., M., OR BLE. AND
SUBST. OR AREA
17-35S-12W

12. PERMIT NO.

43-021-30006

13. ELEVATIONS (Show whether of, FT., OR, etc.)

5391' GL

12. COUNTY OR PARISH 13. STATE
Iron Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) N.O. SETTING CASING ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled to 5018'. Cut Core #1 5018'-5034'. Drilled to 11,640'. RU and ran 288 jts 9-5/8", 47#, L-80 BTC casing and landed @ 11,640'. Cemented using 250 sx Class "H" with LCM and other additives and tail with 150 sx Class "H" + 35% silica flour and additives; followed by 850 sx lite and additives, tail with 150 sx Class "H" + additives. Full returns. NU BOP and test to 250 psi then 5000 psi for 15 mins - OK. Tag cement and drilling ahead 9-29-84.

RECEIVED

OCT 3 1984

DIVISION OF OIL
GAS & MINING

I hereby certify that the foregoing is true and correct

SIGNED

L. B. Morse

TITLE Operations Manager

DATE 10-1-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

ARCO

Jim Onisko — (303) 293-1060

Arco Three Peaks #1

Sec. 17, T35S, R12W

Iron Co.

TD = 15590'

Csg: 9 5/8 @ 11640

~~11640~~

Kaibab Csg shoe - 14535

Caltville 14535

Redwall 15451 - TD

Plug back

① 14400 - 14600

② Check if plug is needed at 12800.

③ Set liner or csg @ 12800

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

RECEIVED

OCT 09 1984

DIVISION OF OIL
GAS & MINING

B.O.P. TEST PERFORMED ON (DATE).....9-25-84.....

OIL CO.:Arco.....

WELL NAME & NUMBER.....Three Peaks #1.....

SECTION.....17.....

TOWNSHIP.....35S.....

RANGE.....12W.....

COUNTY.....Iron.....

DRILLING CONTRACTOR.....Chase #5.....

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE.....J.E. Arthur.....

RIG TOOL PUSHER.....

TESTED OUT OF.....Evanston, Wyoming.....

NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO:Site Representative.....

.....Utah Oil & Gas.....

.....B.L.M.....

ORIGINAL CHART & TEST REPORT ON FILE AT:Evanston.....OFFICE

ENTERPRISES DOUBLE "D" TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

#36 DELIVERY TICKET

Nº 2344

RENTED TO

ARCO

NO.

Big Chase #5

DATE

9-25-84

ORDERED BY

LEASE

3 PEAKS

WELL NO.

#1

Rental begins when tools leave our warehouse
be charged as full day

TRANSPORTATION TO AND FROM JO

DOUBLE D Portable BLOWOUT PREVENT

First eight hour test period

Additional eight hours or fraction

Items Tested

Blinds Rams to 250 # 5000 # Csg. to 250 #
PIPES Rams to 250 # 5000 # Hydril B O P to 250 #
PIPES Rams to 250 # 5000 # Choke Line 250 #
Rams to 250 #

Choke Manifold 250 #
BOTH 250 #
Kelly Cock 250 #
Safety Valve 250 #
DAT 250 #

TEST SUBS

TWO 4 1/2 IF TEST

OTHER

ONE 10" OUT TEST

TIME TO Rig and Fm
LOW TEST HELD 5 MINUTES @ 250 PSI
HIGH TEST HELD 15 MINUTES @ 5000 PSI
CLOSED CASING VALVE
CLOSED INSIDE VALVES NON STACK
RAM CLOSING TIME 6 SECONDS
HYDRIL CLOSING TIME 18 SECONDS
ACCUMULATOR - PSI - 1100
MANIFOLD - PSI - 2800
ANNULAR - PSI - 2800
SET WEAR RING - WEAR RING

We Appreciate Your Business

THANKS BOB RUSSELL

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE); Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

By:

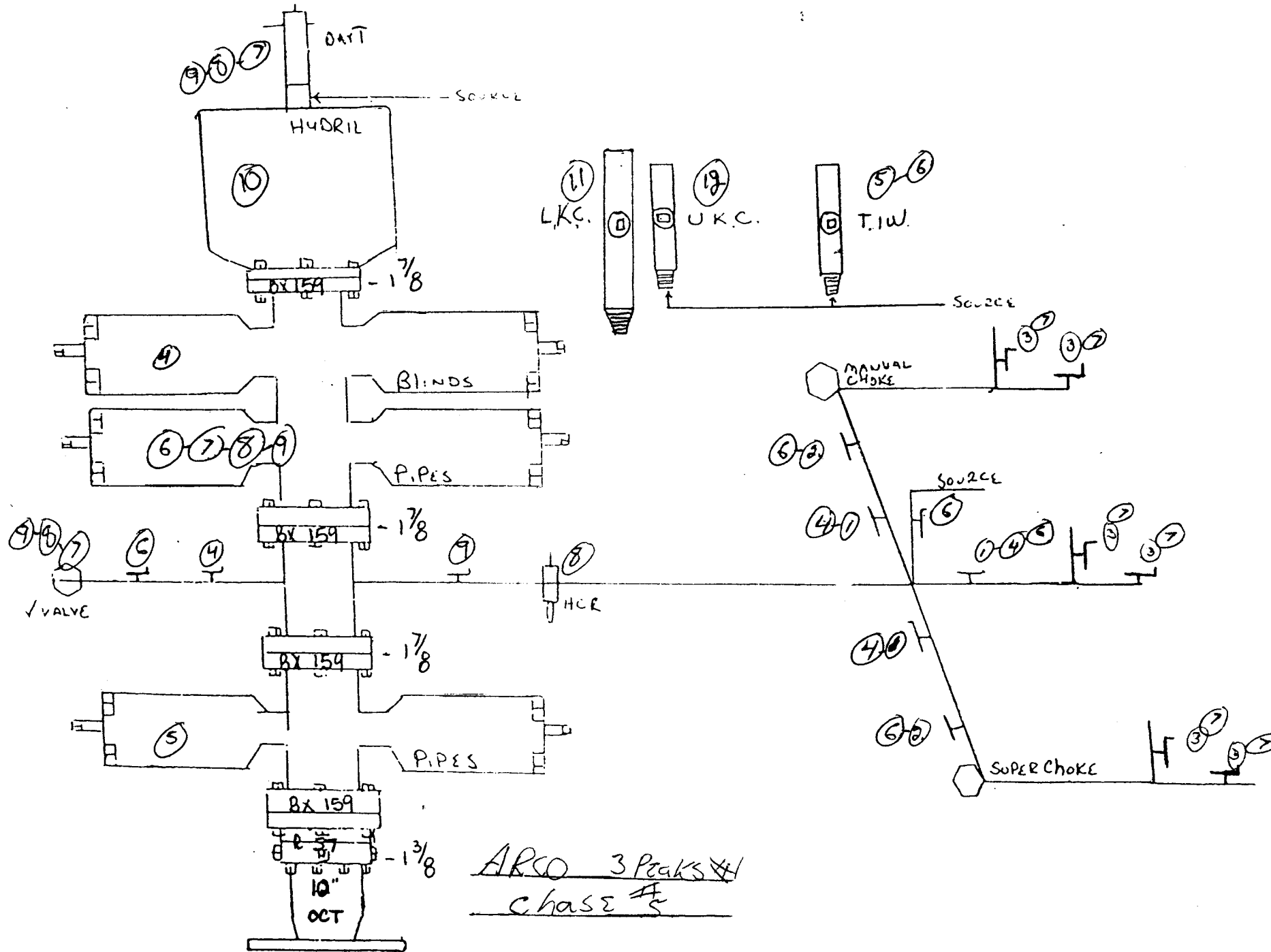
Bob Russell

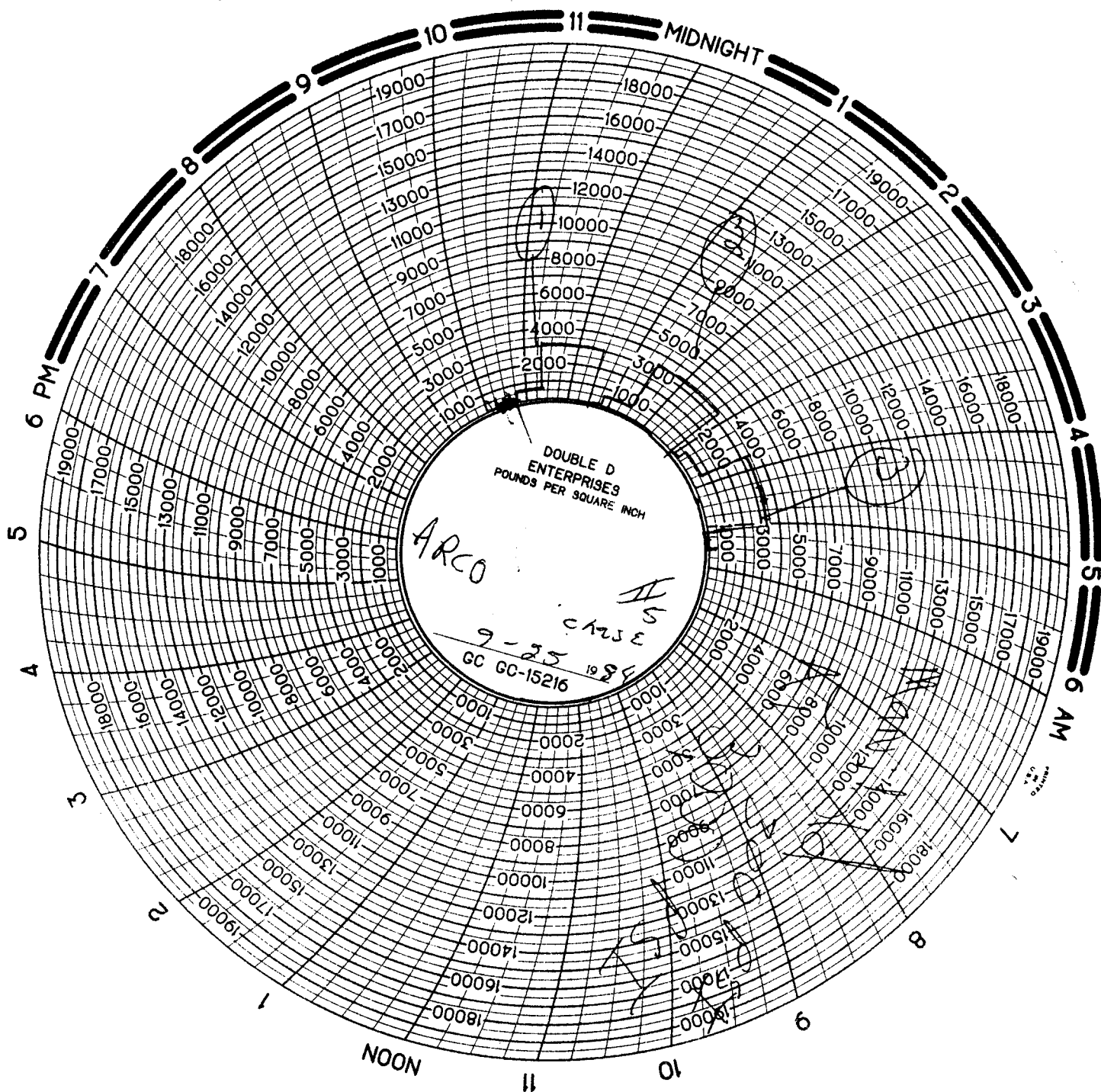
By:

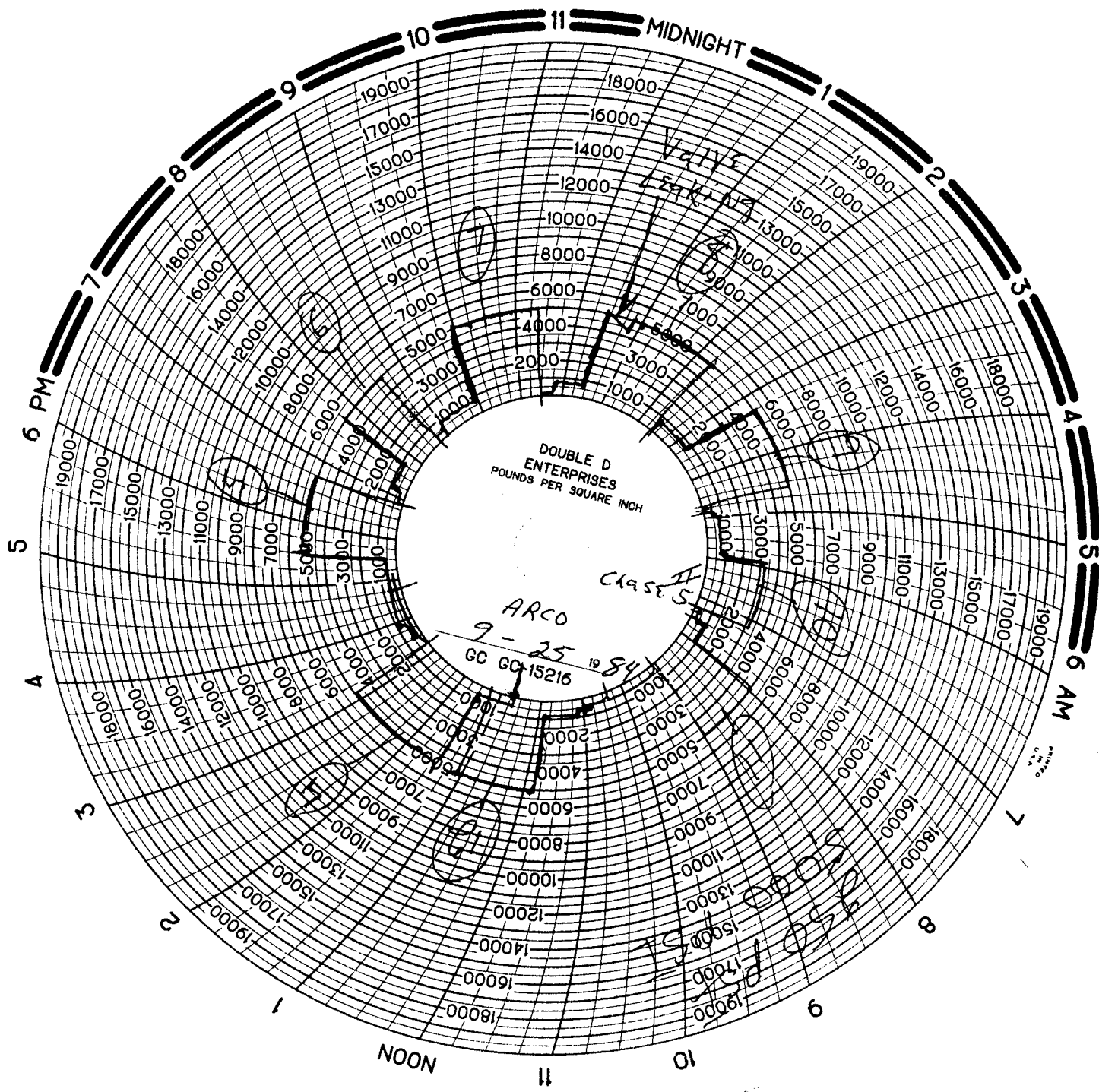
J.E. Arthur

Company	Lease and Well Name #	Date of test	Rig #
ARCO	3-PEAKS #1	9-25-84	CHASE #5
T #	Time	NOT TO LOCATION AT 10:30	
	10:30 - 11:00	Fill Truck with water	
	11:00 - 12:30	WAIT for CREW TO NIPPLE UP CHOKER LINE SO I CAN START TESTING MANIFOLD.	
①	12:30 - 1:00	TEST FIRST SET OF VALVES LOW 300 PSI 5 MIN: OK High 3000 PSI 15 MIN: OK → LEAK ON CHOKER LINE TIGHTEN UP AGAIN	
③	1:00 - 1:25	TEST - NEXT SET OF VALVES LOW 300 PSI 5 MIN: OK High 3000 PSI 15 MIN: OK	
③	1:25 - 1:55	TEST NEXT SET OF VALVES LOW 300 PSI 5 MIN: OK High 3000 PSI 15 MIN: OK	
	1:55 - 6:30	CHANGE OUT RAM'S ON STACK SET Plug close BLINDS (FIRST SET OF VALVE ON MANIFOLD)	
④	6:30 - 6:50	TEST BLINDS FIRST MANIFOLD LINE 250 PSI LOW 5 MIN: OK High 5000 PSI 15 MIN: OK	
	6:50 - 7:15	Run joint BACK IN TO plug SCREW IN - CLOSE BOTTOM PIPES	
⑤	7:15 - 7:35	TEST BOTTOM PIPES - TIW 250 PSI 5 MIN: OK 5000 PSI 15 MIN: OK	
⑥	7:35 - 8:00	TEST - TOP PIPES - TIW - SCREW ON LINE - UP RIGHT - SET OF VALVES ONE 250 PSI 5 MIN: OK 5000 PSI 15 MIN: OK	

Company		Lease nd Well Name #	Date of Test	Rig #
ARCO		3-PEAKS-1 [#]	9-25-84	Chase [#] 5
#	Time			
①	8:00 - 8:30	TEST - TOP PIPES - DAST - CHECK ON KILL LINE - THIRTS SET OF VALVES ON CHOKE MANIFOLD 250 PSI 5 MIN OK 5000 PSI 15 MIN OK		
②	8:30 - 8:55	TEST - TOP PIPES - HCR - DAST CHECK ON KILL LINE. 250 PSI 5 MIN OK 5000 PSI 15 MIN OK		
③	8:55 - 9:15	TEST - TOP PIPES - manual ON CHOKE LINE - CHECK ON KILL LINE - DAST. 250 PSI 5 MIN: OK 5000 PSI 15 MIN: OK		
④	9:15 - 9:40	TEST - HY DRILL 250 PSI 5 MIN OK 3000 PSI 15 MIN: OK		
	9:40 - 10:30	Pull Plug Break down SUB'S and TCA - DAST SET WEAR RING KELLY up & make up SUB TO KELLY		
⑤	10:30 - 10:55	TEST BOTTOM KELLY VALVE 250 PSI 5 MIN 5000 PSI 15 MIN		
⑥	10:55 - 11:25	TEST - TOP KELLY LOW 250 PSI 5 MIN: 5000 PSI 15 MIN		
	11:25 - 12:00	Rig DOWN! MAKE OUT TICKET		
	12:00 - 10:30	TRAVEL TO SHOP		







DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 11-24-84

OIL CO.: ARCO

WELL NAME & NUMBER 3 PEAKS #

SECTION 17

TOWNSHIP 35S

RANGE 12W

COUNTY IRON UT.

DRILLING CONTRACTOR CHASE #5

INVOICES BILLED FROM: DOUBLE "D" ENTERPRISES, INC.
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: DOUBLE "D" ENTERPRISES, INC.
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE GEORGE GOWARD

RIG TOOL PUSHER RICK ROSENTHAL

TESTED OUT OF EVANSTON

NOTIFIED PRIOR TO TEST: _____

COPIES OF THIS TEST REPORT SENT COPIES TO: SITE REP

U.O.G.

B.L.M.

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON OFFICE

ENTERPRISES
DOUBLE "D" TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

35 N° 2359

RENTED TO ARCO NO. _____

DATE 11-24-84

ORDERED BY GEORGE GOWARD LEASE THREE YEARS WELL NO. 7

Rental begins when tools leave our warehouse and continues until returned thereto. Rental does not include a lead and test down hole.

250	5000	#	Csg. to	#	Choke Manifold	250	5000	#	
PIPE	rams to		250	3000		Kelly Cock	250	5000	#
PIPE	rams to		250	5000	#	Safety Valve	250	5000	#
PIPE	rams to								

TEST SUBS TWO - 4 1/2 IP

OTHER ONE - 10"

25 GALS METH.

ALL LOW TESTS HELD 5 MIN O.K.

ALL HI TESTS HELD 15 MIN O.K.

SHUT CSG. VALVE

FILLED CHOKE LINE & MANIFOLD w/METH

ACC. PSI 2700

MAN. PSI 2700

ANN. PSI 1500

SET WEAR RING

We Appreciate Your Business

THANK MB

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

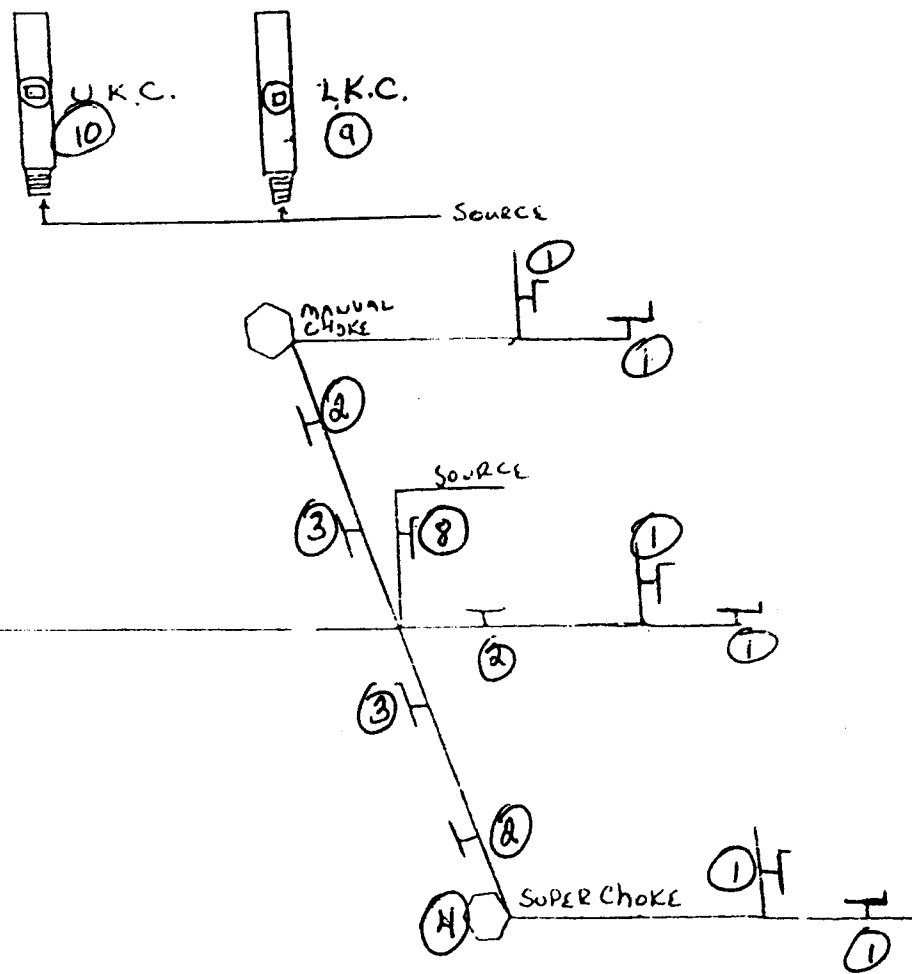
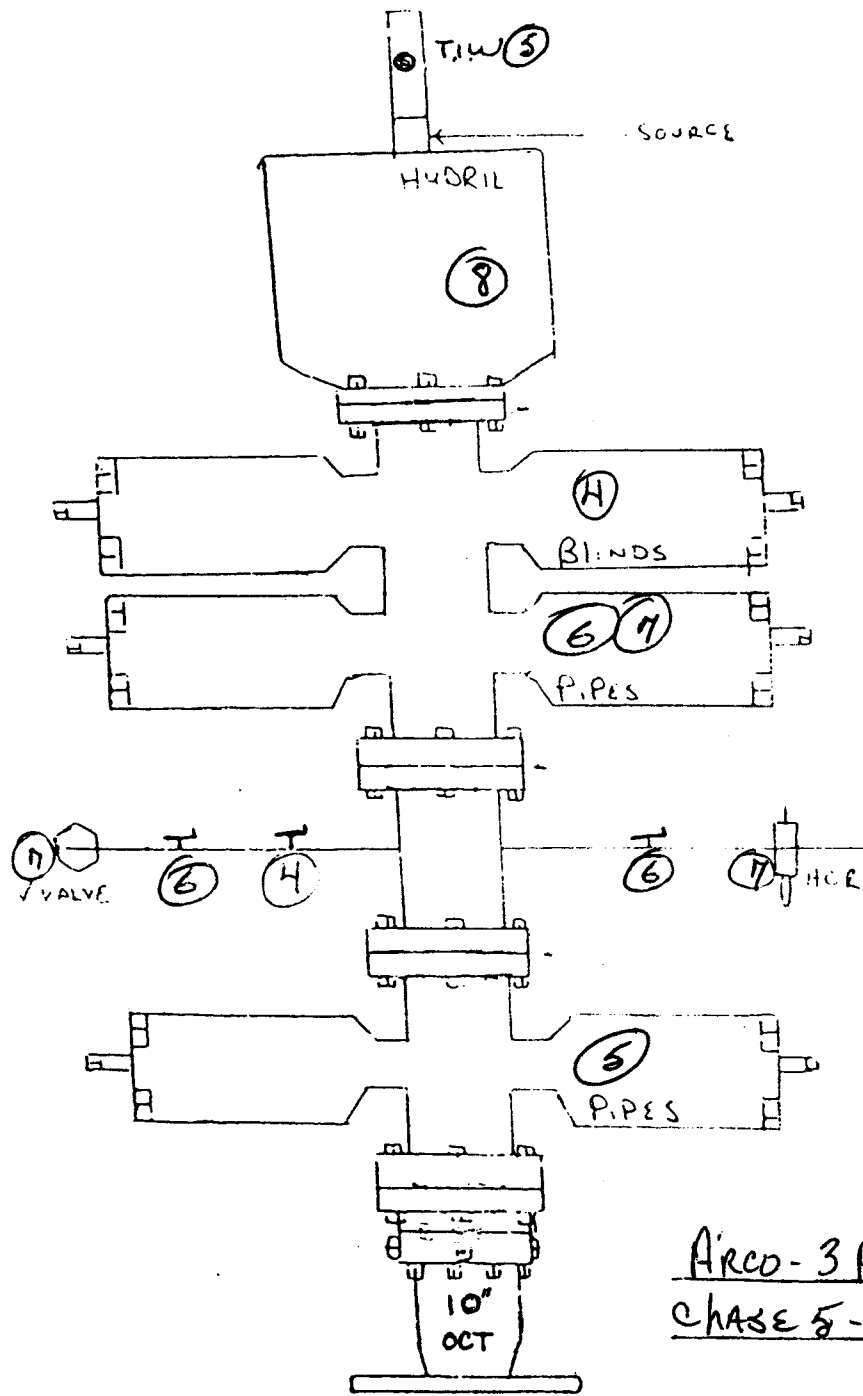
OWNER OR OWNER'S REPRESENTATIVE

By: Michael D. Bueger

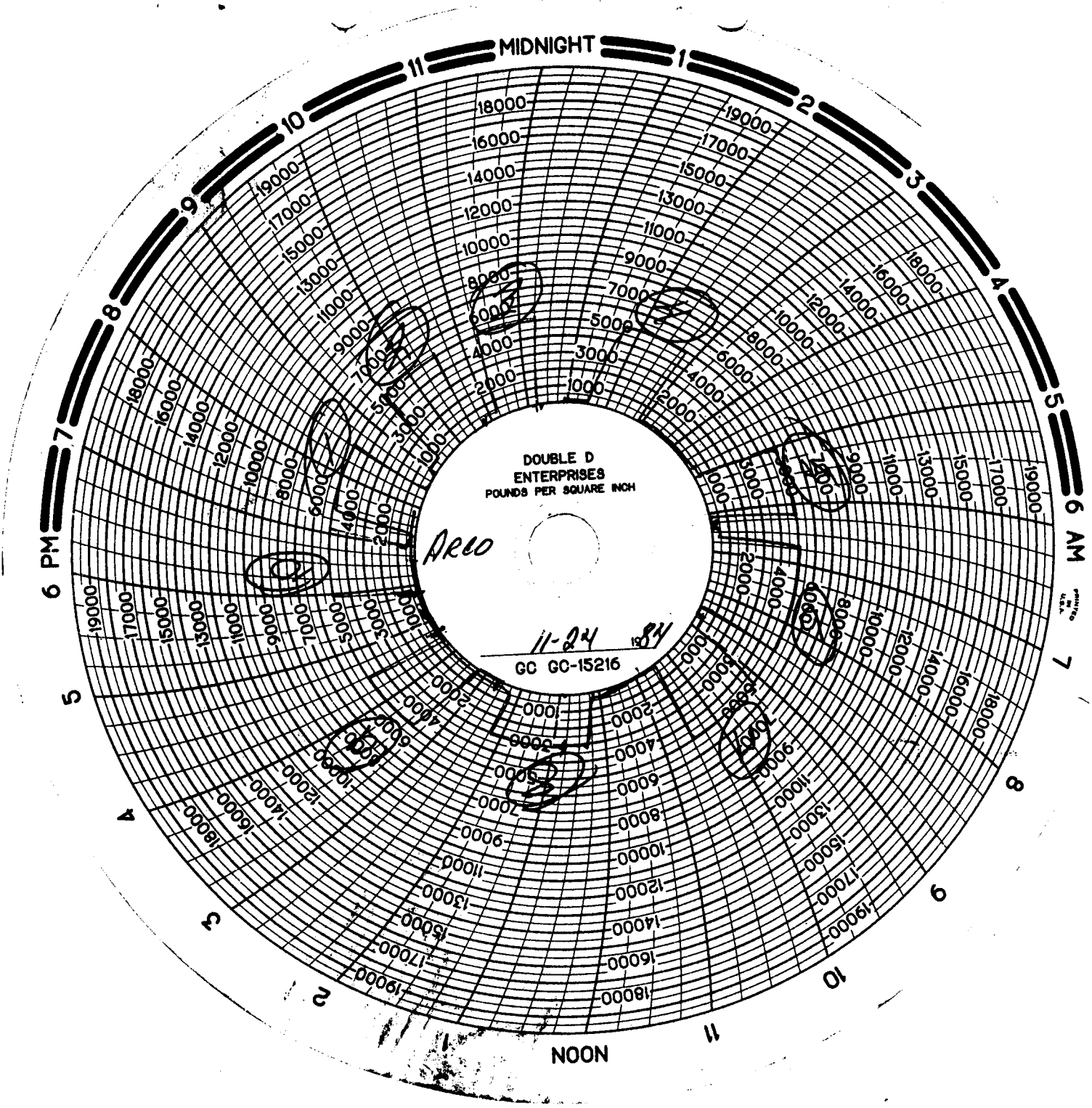
By: G. J. Goward

Company	Lease and Well Name #	Date of Test	Rig #
ARCO	3 PEAKS	11-24-83	CHASE #5

ST #	TIME	
	11:00 - 6:00	TRAVEL TO RIG
	6:00 -	W.O. RIG TO TRIP OUT, UNLOAD TOOLS
	- 5:30	RIG UP TO TEST MANIFOLD
①	5:30 - 5:35	250 O.K. BACK MANUALS
	5:35 - 5:50	5000 O.K. "
②	5:50 - 5:55	250 O.K. 2 ND MANUALS
	5:55 - 6:10	5000 O.K. "
	6:10 - 6:15	SWITCH VALVES
③	6:15 - 6:20	250 O.K. 1 ST MANUALS
	6:20 - 6:35	5000 O.K. "
	6:35 - 8:15	W.O. RIG - T.O.O.H.
	8:15 -	P.U. TOOLS, OPEN CASING VALVE, PULL WEAR RING, HOSE OUT STACK, SET PLUG, FILL STACK, SHUT BLINDS.
	9:00	OPEN HCR, SHUT SUPER CHOKE
④	9:00 - 9:05	250 O.K. BLINDS, 1 ST KILL, SUPER CHOKE
	9:05 - 9:20	5000 O.K. "
	9:20 - 9:30	SWITCH HOSES, STAB PLUG, W.T., FILL JT - SHUT T.I.W.
⑤	9:30 - 9:35	250 O.K. LOWER PIPES
	9:35 - 9:50	5000 O.K. "
	9:50 - 9:55	SWITCH RAMS
⑥	9:55 - 10:00	250 O.K. UPPER PIPES, 2 ND KILL, 1 ST H "
	10:00 - 10:15	5000 O.K. "
⑦	10:15 - 10:20	250 O.K. UPPER PIPES, V VALVE & HCR
	10:20 - 10:35	5000 O.K. "
	10:35 - 10:40	CLOSE HYDRIL OPEN PIPES & HCR
⑧	10:40 - 10:45	250 O.K. HYDRIL & VERTICAL VALVE
	10:45 - 11:00	3000 O.K. "
	11:00 - 11:25	PULL PLUG, SET WEAR RING, P.U. KELLY
⑨	11:25 - 11:30	250 O.K. LOWER KELLY
	11:30 - 11:45	5000 O.K. "
⑩	11:45 - 11:50	250 O.K. UPPER KELLY
	11:50 - 12:05	5000 O.K. "



AIRC-3 PEAKS
CHASE 5-11-24-83



DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH

Ario

11-24-84
GC GC-15216

9-1-603 176-7687

750 Roquelea Lane
Grants Pass, Ore.

Dec. 9, 1984

97526

Division of Oil, Gas, & Mining
355 West 7th Temple.
3 Trade Center, Suite 350
Salt Lake City, Utah 84180-1203

RECEIVED
DEC 12 1984

DIVISION OF
OIL, GAS & MINING

Dear Sirs:

I am writing to enquire about an oil well, Deep Oil & Gas, that was given Approval during week of February 22-28 - 1984, Report #6. It is located in Iron County - Three Peaks #1 Sec. 17 T. 35 S. - R. 12 W, Wildcat.

I have watched the papers very closely & have not heard any further about this particular well. Could you please tell me if this well has been completed & if it is plugged & abandoned or what?

Thank you.

Sincerely,

Betty Lou Campbell.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.OIL WELL ☐ GAS WELL ☒ OTHER ☐

NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1005' FSL & 350' FWL

CONFIDENTIAL5. LEASE DESIGNATION AND SERIAL NO.
FEE6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NA7. UNIT AGREEMENT NAME
Iron Springs Unit8. FARM OR LEASE NAME
ARCO Three Peaks9. WELL NO.
110. FIELD AND POOL, OR WILDCAT
Wildcat11. SEC. T., R. M., OR S.E. AND
SURVEY OR AREA
17-35S-12W12. COUNTY OR PARISH
Iron13. STATE
Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON* ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) Extend TD ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT* ☐(Other) ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Permission is hereby requested to extend the proposed
TOTAL DEPTH of this well to 16,500'.Verbal approval received from Arlene, State Oil and Gas
Commission, to Suzanne Barnes, ARCO, on 12-5-84.Federal approval of this action
is required before commencing
operations.ACCEPTED
APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MININGDATE: 12/13/84
BY: John R. BarnesRECEIVED
DEC 13 1984DIVISION OF
OIL, GAS & MINING

I hereby certify that the foregoing is true and correct

SIGNED L.B. MorseTITLE Operations ManagerDATE 12-5-84

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

COMMENTS OF APPROVAL IF ANY:

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE).....12-26-84.....
OIL CO.:.....Arco.....
WELL NAME & NUMBER.....Three Peaks #1.....
SECTION.....17.....
TOWNSHIP.....35W.....
RANGE.....12W.....
COUNTY.....Iron.....
DRILLING CONTRACTOR.....Chase #5.....
INVOICES BILLED FROM: DOUBLE "D" ENTERPRISES, INC.
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234
TESTED BY: DOUBLE "D" ENTERPRISES, INC.
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214
OIL CO. SITE REPRESENTATIVE.....George Goward.....
RIG TOOL PUSHER.....
TESTED OUT OF.....Evanston, Wyoming.....
NOTIFIED PRIOR TO TEST:
COPIES OF THIS TEST REPORT SENT COPIES TO:Site Representative.....
.....Utah Oil & Gas.....
.....B.L.M.....
ORIGINAL CHART & TEST REPORT ON FILE AT:Evanston.....OFFICE

RECEIVED
DEC 30 1984

DIVISION OF
OIL & GAS & MINING

ENTERPRISES DOUBLE "D" TESTING

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

DELIVERY TICKET

Nº 2288

RENTED TO

ARCO

NO

Chase #5

DATE

12-26-84

ORDERED BY

GEORGE GOWARD

LEASE THREE Peaks

WELL NO.

1

Rental begins when tools leave our warehouse and continues until returned thereto. Rental day starts at midnight and next day shall

Item Tested:

Blind	rams to	250 5000 #	Csg. to	250 #	Choke Manifold	250 5000 #
Pipe	rams to	250 5000 #	Hydril B O P to	250 3000 #	Kelly Cock	250 5000 #
Pipe	rams to	250 5000 #	Choke Line	250 5000 #	Safety Valve	250 5000 #
	rams to	#		#		#

TEST SUBS

TWO 4 1/2 IF -

OTHER

ONE 10" OCT

Methonal used

all Test held Low 250 psi 5 min

all test held High 5000 psi 15 min

Hydril Held 3000 psi 15 min

Closing time

Accumulator psi

Rams 6 sec.

Manifold 2700

Blinds 6 sec.

Accumulator 2700

Hydril 18 sec.

Annular 1250

We Appreciate Your Business

thank you

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Delivered By:

Frank W Brown

OWNER OR OWNER'S REPRESENTATIVE

By:

George Howard

COMPANY		LEASE AND WELL NAME #	DATE	FEST	RIG # AND NAME
Arco		Three Peaks #1	12/24/84		Chase #5
I#	TIME				
	11:30 Am	Arrive on Location - Rig up to choke manifold			
	11:50-11:55	First set valves 250 psi Leaked (Low)			
	11:57-12:13	5000 psi High 15 minutes Leaked worked valves			
①		Test First set of valves			
	12:05-12:10	250 psi Low 5 minutes o.k.			
	12:10-12:25	5000 psi High 15 minutes o.k.			
		Switch valves			
②		Test Second set of valves			
	12:25-12:30	250 psi Low 5 minutes o.k.			
	12:30-12:45	5000 psi High 15 minutes o.k.			
		switch valves			
③		Test Third set of valves			
	12:45-12:50	250 psi Low 5 minutes o.k.			
	12:50-1:05	5000 psi High 15 minutes o.k.			
④		Test Blind - super choke and First manual Kill Line			
	1:05-1:10	250 psi Low 5 minutes o.k.			
	1:10-1:25	5000 psi High 15 minutes o.k.			
		Switch Rams			
⑤		Test Lower pipes and T.I.W. valve			
	1:45-1:50	250 psi Low 5 minutes o.k.			
	1:50-2:05	5000 psi High 15 minutes o.k.			
⑥		Test Upper pipes - T.I.W. - upright in Choke manifold and second manual Kill Line			
	2:09-2:14	250 psi 5 minutes o.k.			
	2:14-2:29	5000 psi 15 minutes o.k.			
		Switch valves			
⑦		Test Upper pipes - T.I.W. - H.C.R. valve and Check Valve			
	2:32-2:37	250 psi 5 minutes o.k.			
	2:37-2:52	5000 psi 15 minutes o.k.			
		Switch valves			

COMPANY

LEASE AND WELL NAME #

DATE TEST

RIG # AND NAME

Arco

Three Peaks #1

12/26/84

Chase #5

EST# TIME

⑧ Test upper pipes - T.I.W. - Check valve
and First manual Choke Line

3:02-3:07 250 psi 5 minutes o.k.

3:07-3:22 5000 psi 15 minutes o.k.

⑨ Test Hydril and T.I.W.

3:27-3:32 250 psi 5 minutes o.k.

3:32-3:47 5000 psi 15 minutes o.k.

3:47-4:20 Pull Test plug - Break Down circulating
sub and T.I.W. - pickup Kelly
make up sub.

⑩ Test Lower Kelly Cock

4:20-4:25 250 psi 5 minutes o.k.

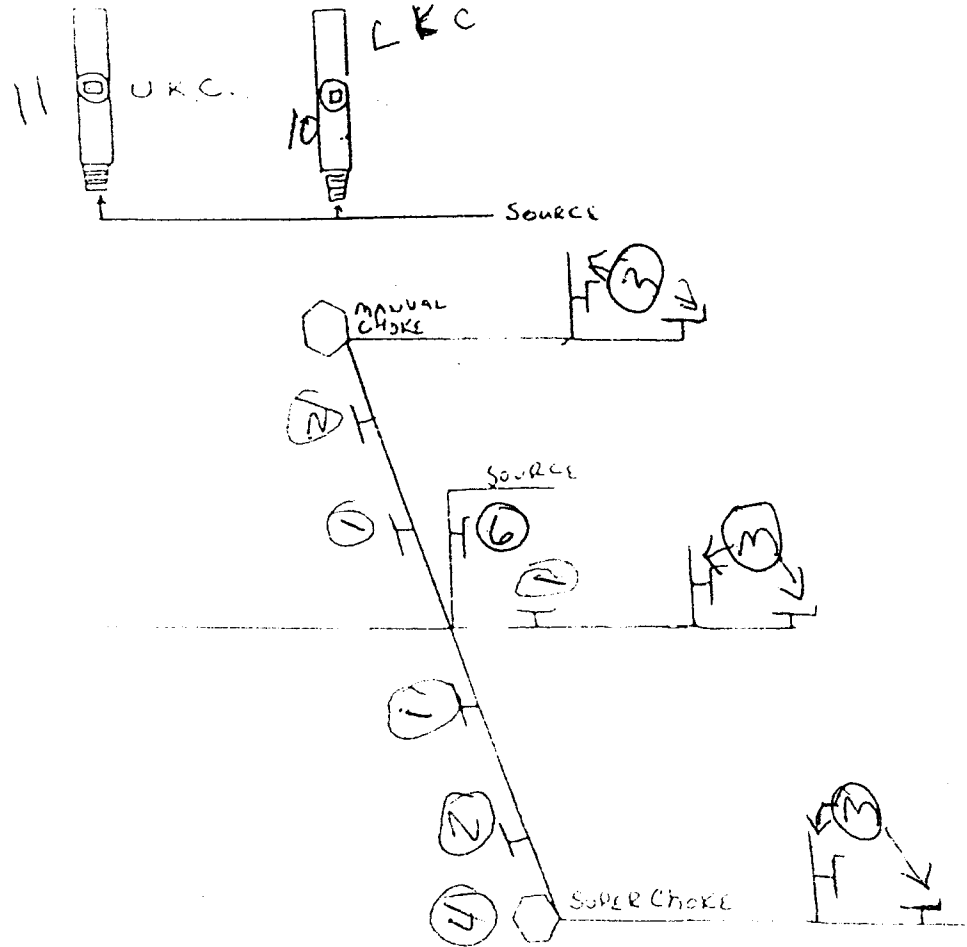
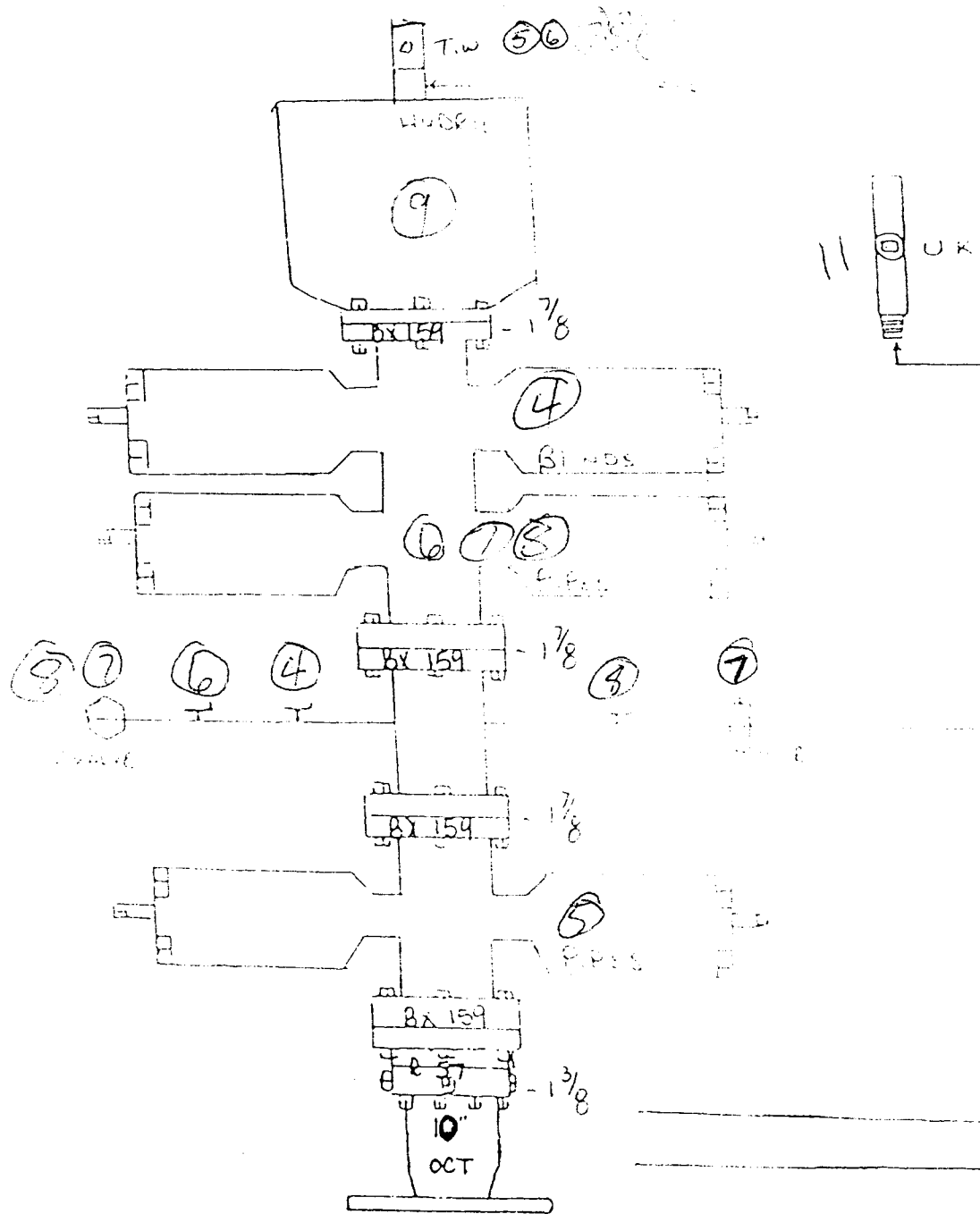
4:25-4:40 5000 psi 15 minutes o.k.

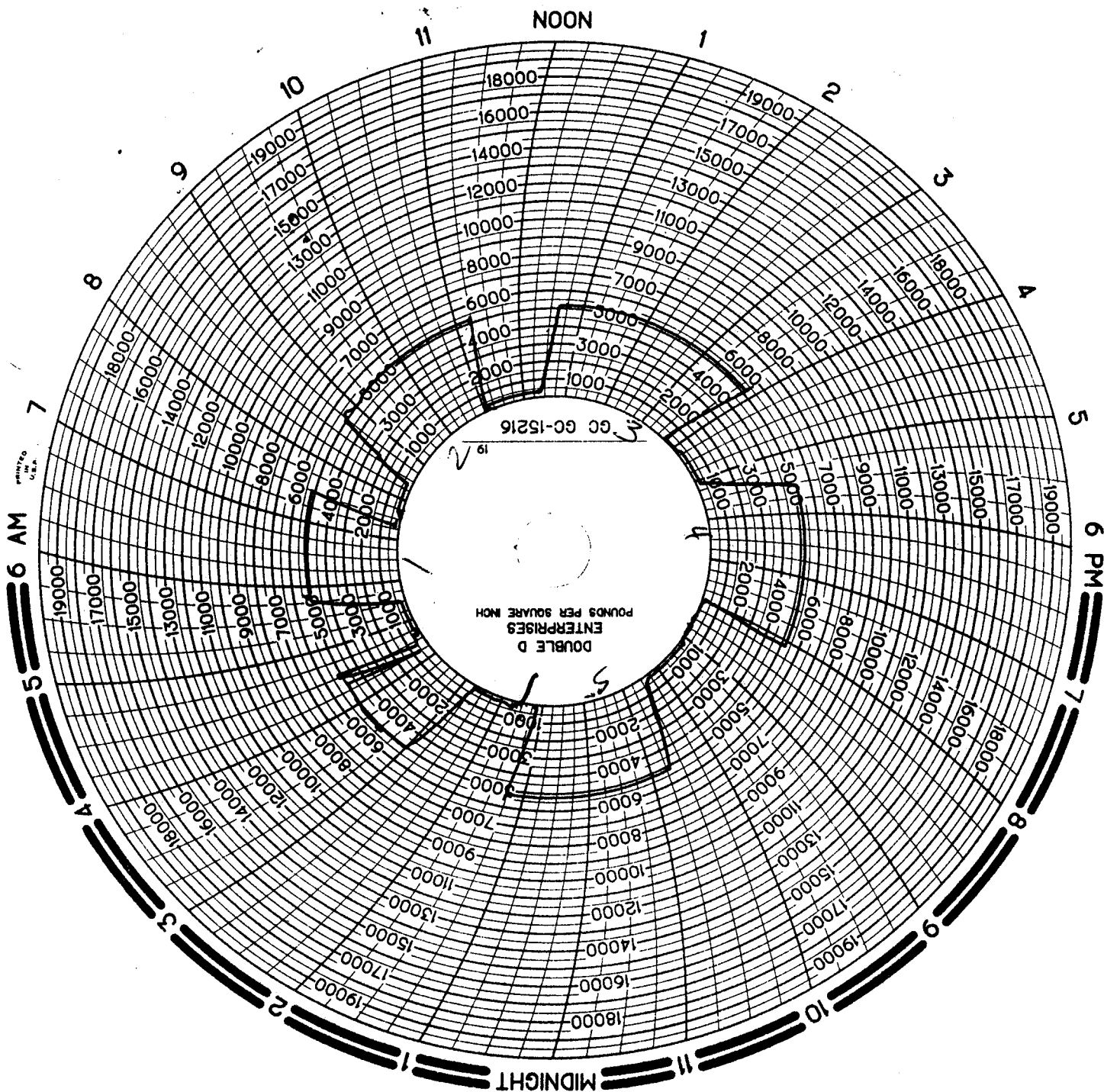
⑪ Test Upper Kelly Cock

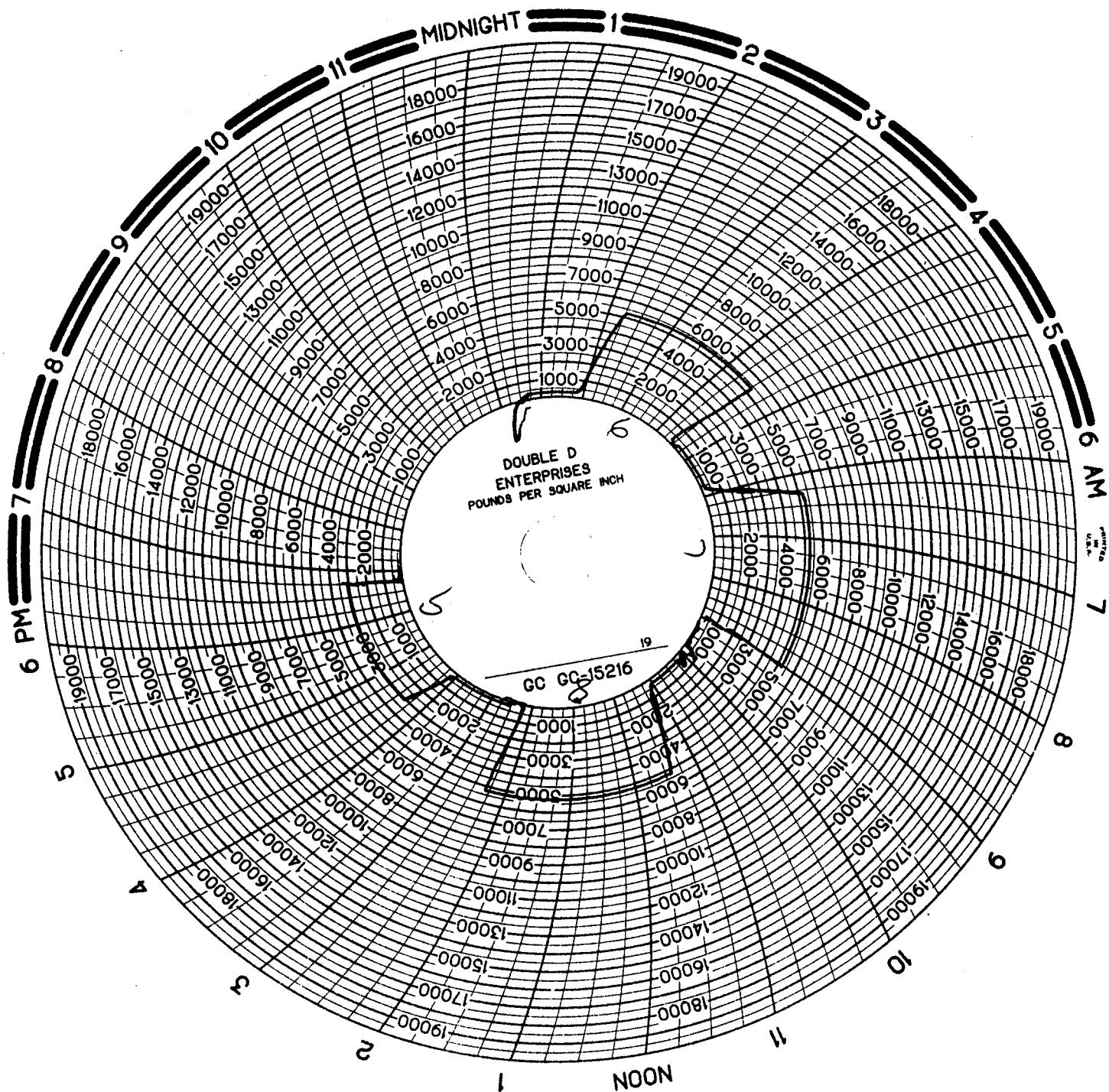
4:45-4:50 250 psi 5 minutes o.k.

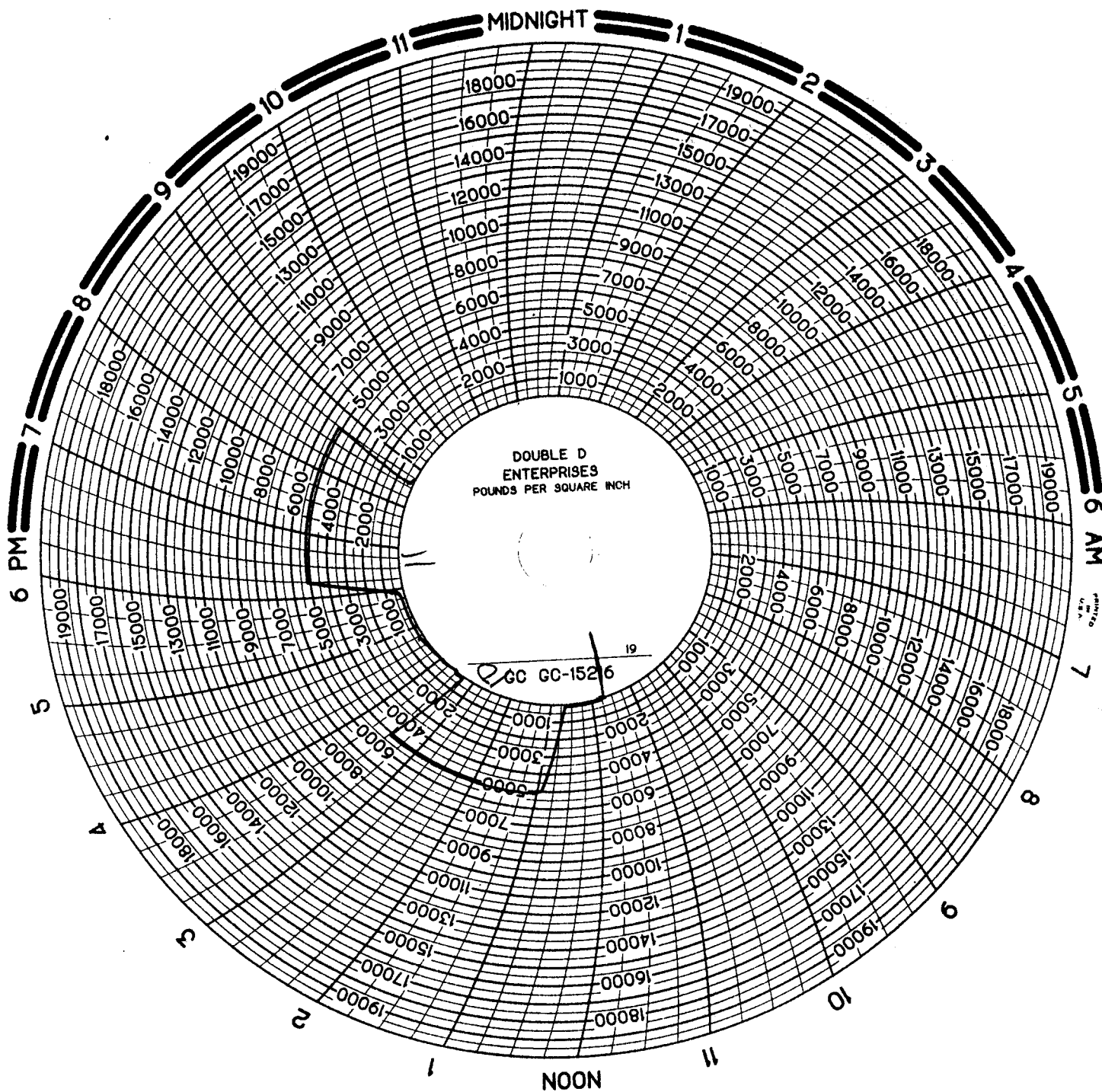
4:50-5:05 5000 psi 15 minutes o.k.

Set wear ring - spool up -
make out ticket











STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 4, 1985

Ms. Betty Lou Campbell
750 Roguelea Lane
Grants Pass, Oregon 97526

Dear Ms. Campbell:

Re: Well No. Arco Three Peaks #1 - Sec. 17, T. 35S., R. 12W.
Iron County, Utah - API #43-021-30006

In reply to your inquiry of December 9, 1984 concerning the status of the above referred to well, the operator has requested this well be given confidential status...We, therefore, regret that we cannot release the requested information at this time.

A well may remain on confidential status for nine months following completion of the well and we have not yet received a release date on this well. Enclosed is a copy of the Application for Permit to Drill and a copy of our Confidentiality Guidelines.

If you desire more information on this well, may I suggest contacting this division approximately six months from this date or make a direct inquiry from the company.

Sincerely,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones
Well Records Specialist

Enclosures (2)

0051S/4

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

OIL WELL ☐ GAS WELL ☒ OTHER ☐

NAME OF OPERATOR
ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR
P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1005' FSL & 350' FWL

5. LEASE DESIGNATION AND SERIAL NO.

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT ASSIGNMENT NAME

Iron Springs Unit

8. NAME OF LEASE NAME

ARCO Three Peaks

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC. T. R. M. OR S.E. AND
SURVEY OR AREA

17-35S-12W

12. PERMIT NO.

43-021-30006

13. ELEVATIONS (Show whether ST, TV, or PL)

5391' GL

14. COUNTY OR PARISH

Iron

15. STATE

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) PLUG BACK AND SET LINER ☒

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT ☐

(Note: Report results of multiple completion on Well
(Completion or Recompletion Report and Log form.)

16. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Permission is hereby requested to abandon this well below 12,300'. This well was drilled to a depth of 15,590' and a "fish" was then stuck in the hole from 12,342' to 15,030'. It is proposed to leave the fish in the hole and to cement it in place with \pm 30 feet of cement on top of the fish. It is then proposed to set a 7" production liner to \pm 12,300' for further formation evaluation.

Verbal approval received from John Baza, State Oil and Gas Commission, to Suzanne Barnes, ARCO Oil and Gas Company, on January 17, 1985.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 2/8/85

BY: John R. Baza

17. I hereby certify that the foregoing is true and correct

SIGNED John R. Baza TITLE Operations Manager

DATE 1-30-85

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL IF ANY:

TITLE _____

DATE _____

TUT HOLE
STATE OF UTAHSUBMIT IN TRIPlicate
(Other instructions on
reverse side)DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.OIL WELL ☐ GAS WELL ☒ OTHER ☐

NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)

At surface

1005' FSL & 350' FWL

5. LEASE DESIGNATION AND SERIAL NO.

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Iron Springs Unit

8. FARM OR LEASE NAME

ARCO Three Peaks

WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., N., OR S.E., AND
SUBSET OR AREA

17-35S-12W

1. PERMIT NO.

43-021-30006

12. ELEVATIONS (Show whether OF, TO, OR FROM)

5391' GL

12. COUNTY OR PARISH

Iron

13. STATE

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) N.O. Setting Production Liner ☒REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

5. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled ahead. DST #1 11,640'-11,779'. Core #2 11,991'-11,997'.
 Drilled. Core #3 13,359'-13,361'. Drilled to 15,590'. Stuck
 pipe from 12,342' to 15,030'. Cement top of fish @ 12,338' with
 105 sx Class "H" + additives. Drilled cement. RU and ran 24 jts
 7" 32#, L-80, BTC liner from 11,219' to 12,239'. Cemented with
 225 sx Class "H" + 35% silica flour + additives. Bumped plug-OK.
 Released rig 1-24-85.

RECEIVED

FEB 07 1985

DIVISION OF OIL
GAS & MINING

5. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Operations ManagerDATE 1-30-85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

2/26/85

Arco

Arco Three Peaks #1

Iron Co.

Talked to Suzanne Barnes (303) 293-1077

Csg: 9 5/8" @ 11,640

- Would like to pump fluid into Kaibab formation. (11,640 - 11,695).
- 15,000 to 20,000 bbls.
- Would like to abandon Toroweap.
CR @ Toroweap top - 11,695'
- Mud system: 800 ppal. during drilling.

Alternative zone: Navajo @ 6000' (approx.)

SRB → Gave verbal approval for fluid injection into Kaibab. Limiting surface press. of 2000 psi. Arco will provide Sunday Notice which we will approve by writing.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING**CONFIDENTIAL** IMMIGRATION AND SERIAL NO.
FEE**SUNDRY NOTICES AND REPORTS ON WELLS**Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.OIL WELL ☐ GAS WELL ☒ OTHER

NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1005' FSL & 350' FWL

PERMIT NO.

43-021-30006

16. ELEVATIONS (Show whether OF, TO, OR, AND)

5391' GL

3. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT ASSIGNMENT NAME

Iron Springs Unit

8. FARM OR LEASE NAME

ARCO Three Peaks

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., N. OR S.E., AND
SUBSET OR AREA

17-35S-12W

12. COUNTY OR PARISH 13. STATE

Iron

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐(Other) ☐PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☐CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐(Other) ☐REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Per the phone conversation held on 2-26-85 between John Bazza with the State Oil & Gas Commission and Suzanne Barnes ARCO Oil and Gas Company, verbal permission was received to permanently abandon the existing Kaibab perforations of this well from 11,698' to 11,753'. This zone will be abandoned by setting a cement retainer @ \pm 11,695' and squeezing off the existing perforations. An upper zone within the Kaibab formation will then be perforated and further tested.

If this well is determined to be a dry hole, permission was received to inject the reserve pit fluid within the Upper Kaibab zone from 11,640' to 11,695' at a limiting surface pressure of 2000 psi before the permanent abandonment operations take place.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MININGDATE: 3/5/85
BY: John R. Bazza

I, I hereby certify that the foregoing is true and correct

SIGNED

J. R. Morse

TITLE Operations Manager

DATE 2-26-85

(This space for Federal or State office use)

APPROVED BY
COMMITTEE OF APPROVAL IF ANY:

TITLE

DATE

ARCO

3/8/85
1300hrs.

Arco Three Peaks #1
Sec. 17, T35S, R12W
Iron Co.

Csgs:

13 1/2" @ 2422'

9 5/8" @ 11640'

7" @ 11219 - 12239'

Jim Onisko
(303) 293-1060

TD = 15590'

PBTD = 11693'

~~Perfs~~ ~~11693 - 11753~~

Perfs @ 11642' - 11688'

- ① Inject reserve pit fluids. (They will adjust pressures to account for friction loss down tubing).
- ② Set CR @ 11590' & squeeze off.
- ③ 100' cement plug across cnt. top of 9 5/8" csg.
- ④ 100' cement plug @ 2400' x perf x squeeze.
- ⑤ Surface plug & annulus plug.
- ⑥ P&A marker.

MAR 11-15

STATE OF UTAH

DIVISION OF OIL
GAS & MININGDEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MININGSUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to deepen or plug back to a different formation.
Use "APPLICATION FOR PERMIT" (for such proposals.)

CONFIDENTIAL

OIL WELL ☐ GAS WELL ☒ OTHER

NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1005' FSL & 350' FWL

5. LEASE DESIGNATION AND SERIAL NO.

FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

7. UNIT AGREEMENT NAME

Iron Springs Unit

8. FARM OR LEASE NAME

ARCO Three Peaks

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR S.E. AND
SURVEY OR AREA

17-35S-12W

12. PERMIT NO.

43-021-30006

13. ELEVATIONS (Show whether OF, TO, OR GL)

5391' GL

14. COUNTY OR PARISH

Iron

15. STATE

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐FRACTURE TREAT ☐SHOOT OR ACIDIZE ☐REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐MULTIPLE COMPLETE ☐ABANDON* ☒CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐FRACTURE TREATMENT ☐SHOOTING OR ACIDIZING ☐

(Other)

REPAIRING WELL ☐ALTERING CASING ☐ABANDONMENT* ☐(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-
nent to this work.)

Permission is hereby requested to Plug and Abandon the ARCO Three Peaks #1 well as is described below and was verbally agreed upon by John Bazza with the State Oil & Gas Commission and Jim Onisko with ARCO on 3-8-85.

Before setting the final cement plugs the reserve pit fluid will be injected within the Kaibab zone from 11,640' to 11,695'. The surface pressure less friction losses while injecting will not exceed 2000 psi.

Cement plugs will then be set as follows:

- Plug #1 Set cement retainer @ 11,590'. Squeeze Kaibab perms with 75 sx Class "H" cement
- Plug #2 7050'-6920' cement with 50 sx Class "H" cement
- Plug #3 2350'-2225' perforate 4 holes @ 2350' and set 80 sx Class "H" balance plug followed by Bradenhead squeeze leaving 125' cement inside 9-5/8" casing and 100' inside 9-5/8" x 13-1/2" annulus.
- Plug #4 25'-Surface within 9-5/8" casing and all annuli.

All casing will be cut 4' below GL and a dry hole steel plate will be welded to the casing. The surface owner has requested that a dry hole marker not be used.

APPROVED BY THE STATE

OF UTAH DIVISION OF

OIL, GAS, AND MINING

I, I hereby certify that the foregoing is true and correct

SIGNED

L.B. Morse

TITLE

Operations Manager

DATE

BY:

John R. Baza

DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.

OIL ☐ GAS ☒ OTHER ☐

NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

See also space 17 below.)

At surface

1005' FSL & 350' FWL

PERMIT NO.

43-021-30006

11. ELEVATIONS (Show weather of, ft., or, etc.)

5390' GL

5. LEASE DESIGNATION AND SERIAL NO.

FREE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NA

CONFIDENTIAL

7. UNIT ASSIGNMENT

Iron Springs Unit

8. FARM OR LEASE NAME

ARCO Three Peaks

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., or BLK. AND
SECT. OR AREA

17-35S-12W

12. COUNTY OR PARISH

Iron

13. STATE

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other) ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) ☐

REPAIRING WELL ☐

ALTERING CASING ☐

ABANDONMENT ☒

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Finished pumping reserve pit into perfs 11642-11633. P & A as follows:

1. Set cement retainer @ 11590'. Squeeze perfs 11642-633 with 100 sx Class "H" neat + additives.
2. Spot 50 sx Class "H" + additives from 7054-6924'.
3. Perf'd 4 holes in 9-5/8" casing @ 2350'. Spotted 30 sx neat cement 205' into tubing by 9-5/8" annulus. Cement from 2250-2350 in 13-1/2" x 9-5/8" annulus and from 2225-2375' inside 9-5/8" casing.
4. Pumped 20 sx cement surface plug from + 25' to GL.
5. Mixed and spotted 10 sx cement inside cut off 13-1/2" x 9-5/8" casing. Weld cap over 13-1/2" casing cut off + 4' below GL.

Released rig 3-14-85.

Utah State Oil and Gas representative on location for all plugging operations.

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 3/26/85

BY: John R. Boye

I hereby certify that the foregoing is true and correct

SIGNED

J. R. Morse

TITLE Operations Manager

DATE 3-20-85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.OIL WELL ☐ GAS WELL ☒ OTHER ☐

NAME OF OPERATOR

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

ADDRESS OF OPERATOR

P.O. Box 5540, Denver, Colorado 80217

LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)

At surface 1005' FSL & 350' FWL

RECEIVED
MAR 25 1985
DIVISION OF OIL
GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.

FEE

6. IF INDIAN, NAME OR TRIBE NAME

NA

7. UNIT ASSIGNMENT NAME

Iron Springs Unit

8. FARM OR LEASE NAME

ARCO Three Peaks

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND
SUBST. OF AREA

17-35S-12W

12. PERMIT NO.

43-021-30006

13. ELEVATIONS (Show whether of, ft., or, etc.)

5390' GL

12. COUNTY OR PARISH

Iron

13. STATE

Utah

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐PULL OR ALTER CASING ☐FRACTURE TREAT ☐MULTIPLE COMPLETE ☐SHOOT OR ACIDIZE ☐ABANDON ☐REPAIR WELL ☐CHANGE PLANS ☐(Other) ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐REPAIRING WELL ☐FRACTURE TREATMENT ☐ALTERING CASING ☐SHOOTING OR ACIDIZING ☐ABANDONMENT ☐(Other) ☐

PERF AND ACIDIZE

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log (form.)

DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MI & RU Completion Unit 2-8-85. RIH with bit and casing scraper. Circled hole. Ran CBL. Perf'd 12137-12143. Swabbed. Set cement retainer @ 12058'. Squeezed perfs with 60 sx Class "H" cement + additives + 1 bbl cement on top of retainer. Perf'd 11698-11705, 709-711, 716-720, 725-741, and 749-753. Swabbed. Acidized with 3300 gals HCL + adds + 10,000 gals mud flush + 1500 SCF N₂ + 200 BS. Flowed. Swabbed. Set cement retainer @ 11693'. Squeezed perfs with 75 sx cement + additives. Perf'd 11642-11683. Swabbed. Propose to Plug and Abandon.

I hereby certify that the foregoing is true and correct

SIGNED

L.B. Morse

TITLE Operations Manager

DATE 3-20-85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

CONFIDENTIAL

13

WELL COMPLETION OR RECOMPLETION REPORT**CONFIDENTIAL**

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other _____

1b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR
ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR
P.O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1005' FSL & 350' FWL
At top prod. interval reported below ---
At total depth ---

RECEIVED

MAR 25 1985

SWSW

DIVISION OF OIL
GAS & MINING

API 43-021-30006

14. PERMIT NO. State of Utah DATE ISSUED 2-20-84

15. DATE SPUDDED 6-14-84 16. DATE T.D. REACHED 1-11-85 17. DATE COMPL. (Ready to prod.) P&A 3-15-85 18. ELEVATIONS (OF RES. BT. OR ETC.)* 5390' GL 5417' KB 19. ELEV. CASINGHEAD 5390'

20. TOTAL DEPTH, MD & TVD 15,590' 21. PLUG, BACK T.D., MD & TVD P&A Surface 22. IF MULTIPLE COMPL. HOW MANY* P&A 23. INTERVALS DRILLED BY 0-15,590' 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* PLUGGED AND ABANDONED 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN DLL/Sonic/GR-Calip; DLL/MSFL; FDC/CNL; EDT/CNL; BHC-Sonic 27. WAS WELL CORDED YES

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	-----	112' KB	-----	Conductor	-----
13-1/2"	81.4#	2422' KB	17-1/2"	2405 sx + top job of 350	sx ---
9-5/8"	47#	11640' KB	12-1/4"	1400 sx - 2 stage	---

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT*	SCREEN (MD)
7"	11,219'	12,239'	225 SX	---

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
---	P & A	---

31. PERFORATION RECORD (Interval, size and number)

12137-12143'
11698-11753'
11642-11688'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12137-12143'	squeeze with 60 sx Class "H"
11698-11753'	3300 gal acid + adds + 10,000
---	flush + 1500 SCF N ₂ + 200 B
11698-11753'	squeeze with 75 sx Class "H"

33. PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) _____

--- PLUGGED AND ABANDONED ---

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF	WATER—BSL.	GAS-OIL RATIO
---	---	---	---	---	---	---	---

--- PLUGGED AND ABANDONED ---

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF	WATER—BSL.	OIL GRAVITY-API (CORR.)
---	---	---	---	---	---	---

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS
Daily Well History

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

L.B. Morse
L.B. Morse

TITLE

Operations Manager

DATE

March 21, 1985

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 25, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 25.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 22. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

CONFIDENTIAL

37. SUMMARY OF POROUS ZONES			38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	NAME	DEPT. MARKERS
DST #1	11640	11779	Carmel	900
Core #1	5018	5034	Quartz Monzonite	2322
Core #2	11646	11666	Navajo	6286
Core #3	11991	11997	Chinle	8229
Core #4	13359	13361	Moenkopi	9352
			Kaibab	11597
			Toroweap	12130
			Coconino	12662
			Pakoon	13758
			Callifille	14535
			Redwall	15451
PLUGGED AND ABANDONED:				
Plug #1	Set cement retainer @ 11590. Squeeze perfs 11642-11688 with 100 sx Class "H" neat + adds			
Plug #2	Pump 50 sx Class "H" + adds from 7054-6924			
Plug #3	Perf'd 4 holes in 9-5/8" casing @ 2350. Spotted 80 sx neat 205' into tubing by 9-5/8" annulus. Cement from 2250-2350 in 13-3/8" x 9-5/8" annulus and from 2225-2375 inside 9-5/8" casing			
Plug #4	Pumped 20 sx cement surface plug from + 25' to GL			
Plug #5	Mixed and spotted 10 sx cement inside cut off 13-3/8" x 9-5/8" casing. Weld cap over 13-3/8" casing cut off + 4' below GL.			

Attachment

ARCO OIL AND GAS COMPANY
THREE PEAKS # 1
SEC. 17, T.35S, R.12W
IRON COUNTY, UTAH

MARCH 12, 1985:

Had injected approximately 15,000 bbls of reserve pit fluids into Kaibab Formation.

Injected into perfs at 11642-11688.

Had squeezed perfs at 11642-11688

Used 18.9 total bbls of cement slurry

Pressured up to approximately 3,000 #

Cement slurry:

12.6 bbls into perfs

2 bbls in between perfs and retainer

4.25 bbls of slurry above retainer

Set cement retainer at 11589.84'

Plugg at 7054-6924'

Used 50 sxs, 130' of cement

MARCH 13, 1985

Plug at 2170-2375'

Perfs at 2350 (4 perfs)

Used 125 sxs of cement

To set surface plug on 3/14/85

No P&A marker to be set as per landowner's request

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3/14/85 15,590

Day-35 PBD: 2225' - Prep to cut off wellhd. (7" lnr @ 11,219-12,239') POH & LD 95 jts tbgs, stood back 67 stds. RU WL & perf 4 holes in 9-5/8" csg @ 2350'. RIH w/OE tbgs to 2375'. Circ dn tbgs & up the 13-1/2" x 9-5/8" annulus. Sptd 80 sx neat cmt. POH to 2000'. Closed rams & pmpd 6 BW w/returns on 9-5/8" x 13-1/2" annulus. Left cmt f/2250-2350' in 9-5/8" x 13-1/2" annulus & f/2225-2375' in 9-5/8" csg. POH & LD tbgs. Moved CU to clear BOPs & wellhd. RU WL & jet cutter. Fired cutter 6' below GL. RD WL. Prep to cut off wellhd & csqs 6' below GL. SDFN.

3/15/85 15,590

Day-36 PBD: Surf - Prep to fin P & A. (7" lnr @ 11,219-12,239') Cut off wellhd & csg 3' below GL. Spt 20 sx cmt surf plug in csg. Rel'd CU 1200 hrs 3/14/85. Load out tbgs & RD surf equip. Prep to spt add'l 10 sx cmt in csg & weld on cap.

3/16-18 15,590

TD: 15,590' PBD: Surf - FINAL REPORT - WELL P & A, 3/15/85. (7" lnr @ 11,219-12,239') Mixed & sptd 10 sx cmt in 13-1/2" x 9-5/8" annulus. Welded steel plate over 13-1/2" csg @ 4' below GL. Remove misc equip f/loc. Hauled ARCO equip to Farmington. Moved rental tks off loc. Cln'g up loc & fencing reserve pit.

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3/2-4 15,590	Day-25 PBD: 11,693' - RIH w/pkr & tbg. (7" lnr @ 11,219-12,239') At 0700 hrs 3/1/85, SITP 25 psi. Blew dn same. Swb well & rec'd 160 BW - no oil or gas. POH w/pkr & tbg. SDFN. RU Schl. Set rtnr on WL @ 11,693'. RIH w/stinger on tbg & stab rtnr. Sqz'd perms 11,698-11,753' w/75 sx Cl "H" + add @ 0 psi. Pull out of rtnr & rev out. POH to 2500'. SDFN. Swb well dn to 2500'. POH w/tbg. RU Schl & perf 11,642-11,688' 4 SPF. RD Schl. RIH w/pkr & tbg. SDFN.
3/5/85 15,590	Day-26 PBD: 11,693' - Swbg. (7" lnr @ 11,219-12,239') In morning, well dead. RIH w/ 2-7/8" tbg & pkr. Set pkr @ 11,623'. Tst annulus to 500 psi - OK. Made 25 swb runs & rec'd 215 bbls (161 bbls over load). No oil or gas. SDFN.
3/6/85 15,590	Day-27 PBD: 11,693' - Swbg. (7" lnr @ 11,219-12,239') Opnd well, well dead. Made 32 swb runs & rec'd 326 BW. No hydrocarbons. SDFN.
3/7/85 15,590	Day-28 PBD: 11,693' - Swbg. (7" lnr @ 11,219-12,239') Made 40 swb runs & rec'd 293 BW, no hydrocarbons. SDFN.
3/8/85 15,590	Day-29 PBD: 11,693' - Swbg. (7" lnr @ 11,219-12,239') Made 34 swb runs & rec'd 330 bbls fm wtr, no hydrocarbons.
3/9-11 15,590	Day-32 PBD: 11,693' - Inj reserve pit wtr. (7" lnr @ 11,219-12,239') RD swb line & lubricator. RU Hallib to inject reserve pit into perms 11,642-688'. With pkr set @ 11,617', injected 15,674 bbls reserve pit flds. Initial 6-1/2 BPM @ 3000 psi, final 4 BPM @ 3100 psi. Tbg goes on vac when pmps are SD.
3/12/85 15,590	Day-33 PBD: 11,693' - Prep to P & A. (7" lnr @ 11,219-12,239') Fin injt'g reserve pit into Kaibab perms 11,642-688'. POH w/tbg & pkr. RIH w/cmt rtnr & 2-7/8" tbg to top of lnr. SDFN.
3/13/85 15,590	Day-34 PBD: 11,693' - POH. (7" lnr @ 11,219-12,239') Set cmt rtnr @ 11,590'. Sqz perms w/100 sx Cl "H" neat & add. Left 4 bbls cmt on top of rtnr. Initial rate 2 BPM @ 2700 psi & reduced to 1/4 BPM @ 2700 psi @ end of job. POH & LD tbg to 7059'. Fin POH & LD rtnr setting tool. RIH w/tbg to 7054'. Set a balanced cmt plug f/7054-6924' using 50 s Cl "H" + add. POH, LD 2-7/8" tbg. SDFN.

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2/21/85 15,590	Day-14 PBD: 12,056' - RU to swb. (7" lnr @ 11,219-12,239') Ran GR/CCl log thru tbg to correl guns. Spaced out guns & tbg string. Set pkr. Dropped bar & fired guns. No blow on tbg. RU to swb. 8 BLW to recover.
g/22/85 15,590	Day-15 PBD: 12,056' - Swbg. (7" lnr @ 11,219-12,239') At 0700 hrs, 0 TP. Swbd well w/IFL @ 6800'. Made 3 swb runs & rec'd 25.5 BW. Loaded tbg w/KCl wtr. Brk dn perfs 1 BPM @ 800 psi incr'g to 6.8 BPM @ 3400 psi. ISIP 600 psi decr'g to 0 after 10 min. Total load to recover 66 bbls KCl wtr. Made 13 swb runs w/IFL @ 1200'. Rec'd 90 BW (24 BW over load). Swbd f/11,550'.
2/23-25 15,590	Day-18 PBD: 12,056' - Prep to set BP. (7" lnr @ 11,219-12,239') At 0730 hrs 2/22/85, TP 25 psi. Bled off same. Made 6 swb runs, IFL 2500'. Rec'd 47 BW. Acidized perfs w/3300 gals HCl + add & 10,000 gal mud flush w/1500 scf N ₂ per bbl. Used 200 ball sealers. 4 BPM @ 4200-4900 psi. Displ w/N ₂ . Little ball action. 316 BL. Flwd back 150 BL. SDFN. In AM, opnd well & would not flw. Made 44 swb runs & rec'd 260 bbls (166 BL & 94 bbl fm wtr). No oil or gas. SDFN. Swbd 127 bbl fm wtr. Rel'd pkr & POH. SDFN.
2/26/85 15,590	Day-19 PBD: 12,056' - Prep to swb. (7" lnr @ 11,219-12,239') RU Schl. PU RBP & RIH. Standby f/orders. POH w/RBP & RD Schl. PU retriev pkr & RIH on 2-7/8" tbg. Set pkr @ 11,678'. SDFN.
2/27/85 15,590	Day-20 PBD: 12,056' - Swbg. (7" lnr @ 11,219-12,239') At 0700 hrs 2/26/85, TP 0 psi. Made 40 swb runs & rec'd 240 bbls fm wtr. No oil or gas. SDFN.
2/28/85 15,590	Day-21 PBD: 12,056' - Swbg. (7" lnr @ 11,219-12,239') At 0700 hrs 2/27/85, TP 0 psi. Made 45 swb runs. Initial & final FL @ 2500'. Rec'd 269 BW w/no oil or gas.
3/1/85 15,590	Day-22 PBD: 12,056' - Swbg. (7" lnr @ 11,219-12,239') Made 41 swb runs & rec'd 259 BW. 1050 ppm CO ₂ on last swb run. SDFN.

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- 2/12/85 15,590 Day-5 PBD: 12,192' - POH. (7" lnr @ 11,219-12,239')
Thaw wellhd. Rabbit & PU 2-7/8" tbg. Tag up on FC @ 12,192' - no fill.
Displ mud f/hole w/2% KCl wtr. Circ & filter KCl wtr. POH w/3 stds tbg.
SDFN.
- 2/13/85 15,590 Day-6 PBD: 12,192' - Prep to perf & tst. (7" lnr @ 11,219-12,239')
Circ & filter wtr f/1 hr. POH w/bit, scrpr & tbg. Ran CBL/VDL/GR/CCL w/0
psi & 800 psi. Ran CET/GR/CCL. Ran gauge ring/jk bskt to 12,150'. POH w/
GR/JB. SDFN.
- 2/14/85 15,590 Day-7 PBD: 12,192' - Testing. (7" lnr @ 11,219-12,239')
PU & RIH w/tbg conveyed guns. Ran GR/CCL log & tied in to opn hole CNL
log. Spaced out guns. Dropped bar & fired guns - perf interval
12,137-12,143' w/4 SPF. Vy wk blw, then well dead. Made 3 swb runs f/SN @
11,976'. Rec'd 7 bbls KCl wtr (total load was 7 bbls including cushion &
rathole). SDFN. Prep to cont swbq.
- 2/15/85 15,590 Day-8 PBD: 12,192' - Prep to swb, then acidize. (7" lnr @ 11,219-12,239')
In AM, TP 0 psi. Swbd, rec'd rest of load (2-1/2 bbls). Filled tbg w/70.3
bbls 2% KCl H₂O. Press tst lines to 6000 psi. Est brk dn 4.8-5.0 BPM @
3350 psi, 10 bbls to fm. ISIP 1650 psi, 5 min 250 psi, 10 min <50 psi.
Well went on vac. Total load 80.3 bbls. Made 9 swb runs, rec'd 72.3 bbls.
8.0 bbls left to recover.
- 2/16-19 15,590 Day-12 PBD: 12,192' - Prep to POH w/rtnr setting tool. (7" lnr @
11,219-12,239')
In AM, SITP 0 psi. Made 16 swb runs & rec'd 106 BF - no oil. Total fld
rec'd over load 98 bbls. SDFN. In AM, SITP 50 psi - bled off rapidly, no
gas. Made 13 swb runs & rec'd 77 BW. Total fld rec'd 175 bbls over load.
SDFN. In AM, SITP 0 psi. Made 14 swb runs & rec'd 88 BW - no oil. Total
fld rec'd 263 bbls over load. SDFN. In AM, SITP 80 psi. Bled off rapidly -
no gas. POH w/pkr & tbg conveyed guns (found all shots had fired). RIH
w/cmt rtnr & set @ 12,058'. Fill hole w/2% KCl wtr. Sqz perfs using 60 sx
Cl "H" + add, 4 BPM @ 2700 psi. Est 11-1/2 bbls cmt into perfs, 3 bbls cmt
below rtnr to top perf & 1 bbl cmt on top of rtnr. POH 2 stds & rev out.
POH 20 stds. SDFN.
- 2/20/85 15,590 Day-13 PBD: 12,056' - Prep to RIH w/GR/CCL to correl. (7" lnr @
11,219-12,239')
POH w/cmt rtnr setting tool. MU & RIH w/Bkr 4" perf gun assy on 2-7/8"
tbg. RU Pengo. RIH w/GR/CCL log tool to correlate w/RA tag. Tool
malfunctioned. POH w/tool. SWIFN @ 1900 hrs.

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1/19-21 15,590 Day-221 (0') - RIH to tag liner top. (7" liner @ 11,219-12,239')
MW: 8.8# Vis: 36 Pv/Yp: 6/3
With DP OE @ 12,338', spotted 105 sx C1"H" + add. POH. WOC & PU BHA & RIH. Drl out firm cut w/8-1/2" bit to 12,241' PBD. POH. Ran 7" 32# L-80 BTC liner. Circ hole w/7" shoe @ 11,300', cont RIH. Drop setting ball & set liner hanger w/shoe @ 12,239' & top of liner hanger @ 11,219'. Cmt liner w/225 sx C1"H" + 35% silica flour + add. Bumped plug & checked floats - OK. POH w/setting tool & LD 48 jts of 5" DP. RIH w/bit & tagged up @ 11,212'.

1/22/85 15,590 Day-222 (0') - CO liner. (7" liner @ 11,219-12,239')
MW: 8.7# Vis: 31 Pv/Yp: 2/2
Tag up on liner top - no cmt. Press tst lnr top to 1200 psi - OK. POH. LD 6-1/2" DC's. PU 4-3/4" DC's & 3-1/2" DP. RIH w/5-7/8" bit. Wsh into liner top & tag cmt @ 11,218'. CO approx 30' soft cement. RIH & tag cmt @ 11,750'. Drld & wshd thru cmt stringers to 12,100'.

1/23/85 15,590 Day-223 (0') - LD DP. (7" liner @ 11,219-12,239')
MW: NR Vis: NR Pv/Yp: NR
CO hard cmt to 12,148'. POH. Chg bits. Tst lnr to 900 psi - OK. CO cmt to 12,192' PBD. LD DP.

1/24/85 15,590 Day-224 (0') - Drain mud tks. (7" liner @ 11,219-12,239')
MW: NR Vis: NR Pv/Yp: NR
POH. LD DP. Brk & LD kelly. ND rot hd & BOPE. Drain mud tks.

1/25/85 15,590 Day-225 TD PBD: 12,192' (FC) - WO evaluation. (7" liner @ 11,219-12,239')
Mud pits clnd
ND BOPE & clnd mud tks. RR 1900 hrs 1/24/85. Clnd loc. Expect RD MO by 1/30/85. (Drop f/report until evaluation commences.)

2/8/85 15,590 Day-1 PBD: 12,192' - MI RU. (7" lnr @ 11,219-12,239')
MI RU Well Tech Rig #149 2/7/85. Set BOPs. Laid wtr lines. Strtd generator. (Dropped f/report of 1/25/85.)

2/9-11 15,590 Day-4 PBD: 12,192' - PU tbq. (7" lnr @ 11,219-12,239')
Filtered 900 BW. SDFN. Mixed 2% KCl wtr. Tst csg & blind rams to 1200 psi-OK. SDFN. PU & RIH w/ 5-7/8" bit, scrpr & 2-7/8" 6.5# N-80 EUE to 9529'. SDFN.

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1/11/85 15,590 Day-211 (15') - RIH. (9-5/8" @ 11,640')
MW: 8.9# Vis: 47 Pv/Yp: 12/18 (221 gpm)
Air 690 cfm
Drld 8-1/2" hole to PD. Circ. POH. RU WL & RIH w/csg caliper log. Tool
stopped @ 2800'. Wrkd tool to 3000'. POH & RD WL. PU bit & RIH to 7000'.
Brk circ @ 7000'.

1/12-14 15,590 Day-214 (0') - RIH w/fshg tools. (9-5/8" @ 11,640')
MW: 8.6# Vis: 37 Pv/Yp: 7/2 (221 gpm)
Air 690 cfm
RIH to 7000' & brk circ. RIH to 11,640' & brk circ. RIH to 15,045' - hole
tite. PU to 15,030' & PU kelly. Found pipe stuck. Wrk stuck pipe. RU
Dialog & run FPI. Pipe free @ 13,404' & stuck @ 13,435'. RIH w/strg shot &
BO @ 13,404'. Circ @ TOF. POH. Rec'd 7167' DP (pipe BO @ 7167'). RIH
w/fshg tools & screw into fsh. Wrk pipe. Ran FPI, stuck @ 12,500', free @
12,332'. Attempt to circ & could not. Perf DP w/2 shts 14,160-14,161'.
Attempt to circ, no returns. Ran FPI, free @ 12,358' & stuck @ 12,600'.
Ran strg sht & BO @ 12,358'. POH. PU fshg tools, jet sub, & RIH. TOF
12,358'.

1/15/85 15,590 Day-215 (0') - Rng csg insp log. (9-5/8" @ 11,640')
MW: 8.7# Vis: 38 Pv/Yp: 5/3
RIH to 11,640' & brk circ. RIH to 12,311' & brk circ. POH & LD fshg
tools. RU Dialog & run JB to 11,600'. Rng csg inspection log.

1/16/85 15,590 Day-216 (0') - RIH. (9-5/8" @ 11,640')
MW: 8.7# Vis: 39 Pv/Yp: 6/4
Air
Fin rng csg insp log. PU BHA & RIH to 11,630'. Circ. RIH to TOF @
12,342'. Circ & cond. POH. RU Schl. Ran DLL/MSFL log - stopped @ 1875'.
POH & RD Schl. RIH w/bit to CO.

1/17/85 15,590 Day-217 (0') - Logging. (9-5/8" @ 11,640')
MW: 8.7# Vis: 38 Pv/Yp: 4/2
Air
RIH to 11,640' & brk circ. RIH to 12,340'. Circ & cond mud & hole. POH. RU
Schl. Ran DLL-MSFL & LDT-CNL logs. Presently rng BHC Sonic.

1/18/85 15,590 Day-218 (0') - Prep to set amt plug. (9-5/8" @ 11,640')
MW: NR Vis: NR Pv/Yp: NR
Fin rng BHC/Sonic. Ran dipmeter - tool failed. RD Schl. RIH w/OE DP. Prep
to set amt plug.

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1/3/85 15,160	<p>Day-203 (66') - Drlg. (9-5/8" @ 11,640')</p> <p>MW: 8.8# Vis: 44 Pv/Yp: 8/7 (221 gpm)</p> <p>Air (750 cfm)</p> <p>Drld 8-1/2" hole to PD. Lost 200 BM in last 24 hrs. Survey: 10° @ 15,134'.</p>
1/4/85 15,180	<p>Day-204 (20') - POH. (9-5/8" @ 11,640')</p> <p>MW: 8.8# Vis: 49 Pv/Yp: 12/12 (221 gpm)</p> <p>Air 725-1300 cfm</p> <p>Drld 8-1/2" hole to PD. Kick out rot table to grease swivel & pipe became stuck. Wrkd stuck pipe. Incr'd air to 1300 cfm & wrkd pipe free. POH. 200 BM lost in last 24 hrs.</p>
1/5-7 15,259	<p>Day-207 (79') - RIH w/B#67. (9-5/8" @ 11,640')</p> <p>MW: 8.9# Vis: 47 Pv/Yp: 3/14 (221 gpm)</p> <p>Air 725 cfm</p> <p>POH. Inspect BHA. RIH to 7000'. Brk circ. RIH to 9500'. Brk circ. RIH to 11,600'. Brk circ. RIH. Rm tite hole 13,200-13,339'. RIH. Wsh & rm 40' to btm - 3' fill. Drld 8-1/2" hole to PD. POH. RIH w/B#67. Lost 550 BM in 72 hrs.</p>
1/8/85 15,304	<p>Day-208 (45') - Drlg. (9-5/8" @ 11,640')</p> <p>MW: 8.9# Vis: 40 Pv/Yp: 5/14 (221 gpm)</p> <p>Air 716 cfm</p> <p>RIH to 7000' & brk circ. RIH to 9500' & brk circ. RIH to 11,600' & brk circ (moved DP rbrs while RIH). Fin RIH. Rm 110' to btm. Drld to 15,278'. Circ smpls. Drld 8-1/2" hole to PD.</p>
1/9/85 15,421	<p>Day-209 (117') - Drlg. (9-5/8" @ 11,640')</p> <p>MW: 8.8# Vis: 41 Pv/Yp: 9/4 (221 gpm)</p> <p>Air 690 cfm</p> <p>Drld 8-1/2" hole to PD. Survey: 11° @ 15,307'.</p>
1/10/85 15,575	<p>Day-210 (154') - Drlg. (9-5/8" @ 11,640')</p> <p>MW: 8.8# Vis: 46 Pv/Yp: 9/12 (221 gpm)</p> <p>Air 690 cfm</p> <p>Drld to 15,460'. Circ f/smpls. Drld 8-1/2" hole to PD. Survey: 11-1/2° @ 15,465'.</p>

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12/20/84 14,492	Day-189 (3') - Drlg w/aerated mud. (9-5/8" @ 11,640') MW: 8.8# Vis: 40 Pv/Yp: 4/2 TFB #61 & Brk circ @ 7000' & 11,640'. Rm tite hole f/13,136' to 13,166'. Cont TIH. Wsh & rm 30' to btm. Drld 8-1/2" hole to PD.
12/21/84 14,580	Day-190 (88') - Drlg w/aerated mud. (9-5/8" @ 11,640') MW: 8.8# Vis: 44 Pv/Yp: 6/6 Drld 8-1/2" hole to PD. Survey: 10° @ 14,520'.
12/22-26 14,729	Day-195 (149') - TOH. (9-5/8" @ 11,640') MW: 8.7# Vis: 45 Pv/Yp: 6/6 Drld 8-1/2" hole to 14,643' w/TFB #62 @ 14,588'. Spt 75 bbl LCM pill f/12,800-13,800'. TOH. RU Schl & run GR 12,600-11,400'. Run Gravimeter tool 12,640-11,400'. RD Schl. PU B#63 & TIH. Wsh & rm 30' to btm. Drld 8-1/2" hole to PD. Spt 75 bbl LCM pill. TOH. Surveys: 10° @ 14,580' & 14,704'.
12/27/84 14,729	Day-196 (0') - TIH w/B#64. (9-5/8" @ 11,640') MW: 8.8# Vis: 46 Pv/Yp: 6/5 TOH. Press tst BOPE. TIH to 11,000' w/B#64 & bld mud vol. Lost 200 BM last 24 hrs.
12/28/84 14,800	Day-197 (71') - Drlg. (9-5/8" @ 11,640') MW: 8.8# Vis: 47 Pv/Yp: 6/6 Brk circ @ 11,600' & bld vol. TIH. Rm 30' to btm. Drld 8-1/2" hole to PD.
12/29-31 14,958	Day-200 (158') - Brk circ on TIH. (9-5/8" @ 11,640') MW: 8.8# Vis: 45 Pv/Yp: 6/8 Aerated Drld 8-1/2" hole to PD. Spt LCM pill. TFB #65. TIH. Surveys: 11° @ 14,800', 10-1/2° @ 14,860' & 14,923'.
1/1-2/85 15,094	Day-202 (136') - Drlg. (9-5/8" @ 11,640') MW: 8.8# Vis: 43 Pv/Yp: 6/4 (221 gpm) Air (700 cfm) Attempt to brk circ @ 11,600' - no returns. Bld vol. Kill DP w/mud. POH to 9000'. Bld vol. Brk circ @ 9000' & circ out thick mud. RIH to 11,600' & brk circ. RIH. Rm 45' to btm - 3' fill. Drld 8-1/2" hole to 15,023'. Circ drlg brk. Drld to PD. Survey: 10-1/2° @ 15,037'.

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12/11/84	14,319	Day-180 (0') - Working stuck pipe. MW: 8.8# Vis: 46 Pv/Yp: 6/12 Circ & WO parts. Change out jack shaft. Circ. Work stuck pipe w/ bit @ 14,313' (6' off btm). WO Dialog & ACME Fishing Tool Co. Lost 850 bbls mud.	(9-5/8" @ 11,640')
12/12/84	14,319	Day-181 (0') - Rng free pt. MW: 8.6# Vis: 45 Pv/Yp: 5/10 Wrk stuck pipe & WO Dialog. Load DP w/mud to kill DP. Rng free point. Lost 100 BM last 24 hrs.	(9-5/8" @ 11,640' KB)
12/13/84	14,319	Day-182 (0') - WO fshng tools. MW: 8.6# Vis: 40 Pv/Yp: 5/6 Ran free pt survey. Ran string, shot & backed off DP @ 13,196' (top of HWDP). Attempt to brk circ - no returns. Load DP w/mud to kill air. POH - checked each TJ for proper make-up. PU fishing tools. WO screw-in sub.	(9-5/8" @ 11,640' KB)
12/14/84	14,319	Day-183 (0') - POH w/fish. MW: 8.8# Vis: 36 Pv/Yp: 5/3 RIH w/fishing tools. Brk circ @ 7000' & 11,600'. Wsh 95' to TOF @ 13,199'. Circ btms up. Screw into fish. Found fish free. Circ thru fish. POH w/fish.	(9-5/8" @ 11,640' KB)
12/15-17	14402	Day-186 (83') - Prep to TOH. MW: 8.8# Vis: 42 Pv/Yp: 7/6 TOH w/fish. PU BHA. TIH. Brk circ @ 7,000' & 11,600'. Tag bridge @ 12,846'. Ream tite hole f/12,846-12,866'; 12,940'-13,034'; 13,190'-13,363'; & 13,941-14,319'. Drld to PD. Load DP w/mud & prep to TOH. Surveys: 9-1/2° @ 14,315', 9° @ 14,378'.	(9-5/8" @ 11,640' KB)
12/18/84	14,402	Day-187 (0') - TIH w/new bit. MW: 8.8# Vis: 41 Pv/Yp: 6/5 TOH. Tght spt @ 13,430'. PU bit #60 & junk sub. TIH to 7,000' & brk circ. TIH to 11,640' & brk circ. Cont TIH.	(9-5/8" @ 11,640' KB)
12/19/84	14,489	Day-188 (87') - Prep to TFB #61. MW: 8.8# Vis: 40 Pv/Yp: 5/4 TIH. Wsh & rm 60' to btm. Drld 8-1/2" hole to PD. Prep to TFB #61. Survey: 9-1/2° @ 14,435'.	(9-5/8" @ 11,640' KB)

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12/1-3 13,983	<p>Day-172 (263') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 40 Pv/Yp: 9/8 (220 gpm) Air (700 cfm) Drld 8-1/2" hole to PD w/TFNB @ 13,841'. Lost 250 BM on trip.</p>
12/4/84 14,062	<p>Day-173 (79') - Surveying. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 48 Pv/Yp: 11/9 (220 gpm) Air (650 cfm) Drld 8-1/2" hole to PD. Survey: 12° @ 14,014'.</p>
12/5/84 14,084	<p>Day-174 (22') - RIH (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 45 Pv/Yp: 8/7 (220 gpm) Air (700 cfm) Drld 8-1/2" hole to PD. Rmpd LCM pill. POH. Change BHA & bit & RIH. Survey: 12° @ 14,044'.</p>
12/6/84 13,127	<p>Day-175 (53') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 45 Pv/Yp: 11/9 (220 gpm) Air (700 scfm) RIH, brkg circ @ 7000' & 11,600'. Cont RIH. wsh & rm 60' to btm, 6' fill. Drld 8-1/2" hole to PD. Lost 100 BM in last 24 hrs. Survey: 12-1/2° @ 14,091'.</p>
12/7/84 14,219	<p>Day-176 (82') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 43 Pv/Yp: 9/9 (220 gpm) Air (700 scfm) Drld 8-1/2" hole to 13,172'. WL brk while surveying. POH 7 stds & retr WL & survey tool. RIH. Drld to PD. Survey: 12° @ 14,154'. Lost 50 BM in last 24 hrs.</p>
12/8-10 14,319	<p>Day-179 (100') - Waiting on rig repair parts. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 43 Pv/Yp: 6/9 (220 gpm) Air (700 scfm) Drld 8-1/2" hole to 14,267'. POH. RIH, moving & replacing DP rubbers. Bad corrosion on pipe where rubbers had been. Wsh & rm 60' to btm. Drld to PD. While picking up off btm, bearing on compound jackshaft seized up. Unable to pick up or rotate pipe. Circ w/air & mud while waiting on new bearing. Lost 150 BM over weekend. Survey: 11-1/2° @ 14,220'.</p>

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11/20/84 13,328 Day-159 (10') - Drlg. (9-5/8" @ 11,640' KB)
MW: 8.6# Vis: 43 Pv/Yp: 7/11 (220 gpm)
Drld to 13,322'. Spt 40 bbls LCM pill. POH w/spty drag to 20M# on 1st 5
stds. PU B#50 & RIH to 6500'. Brk circ OK. RIH to 11,640'. Brk circ OK.
RIH. Wsh & rm 50' to btm. Drld 8-1/2" hole to PD.

11/21/84 13,359 Day-160 (31') - RIH w/CB. (9-5/8" @ 11,640' KB)
MW: 8.7# Vis: 40 Pv/Yp: 5/12 (220 gpm)
Air (700 cfm)
Drld 8-1/2" hole to PD. Circ. Spt 50 bbls LCM pill. POH. PU CB & jars.
RIH.

11/22-26 13,595 Day-165 (236') - TOH. (9-5/8" @ 11,640' KB)
MW: 8.7# Vis: 46 Pv/Yp: 10/13 (220 gpm)
Air (700 cfm)
Fin TIH w/CB. Cut Core #3 13,359-13,361'. TOH w/CB. No recovery. PU B#52 &
TIH. Drld 8-1/2" hole to 13,510'. TFB. Tst BOPE. Drld 8-1/2" hole to PD.
TOH. No measurable mud losses last 96 hrs. Survey: 3° @ 13,485'.

11/27/84 13,615 Day-166 (20') - Drlg. (9-5/8" @ 11,640' KB)
MW: 8.7# Vis: 44 Pv/Yp: 11/14 (220 gpm)
Air (700 cfm)
Fin TOH. Inspect BHA. PU B#54 & TIH. Wsh & rmd 60' to btm. Drld 8-1/2"
hole to PD.

11/28/84 13,666 Day-167 (51') - Drlg. (9-5/8" @ 11,640' KB)
MW: 8.9# Vis: 43 Pv/Yp: 11/10
Air (700 cfm)
Drld 8-1/2" hole to PD.

11/29/84 13,670 Day-168 (4') - TIH. (9-5/8" @ 11,640' KB)
MW: 8.7# Vis: 42 Pv/Yp: 10/12
Air (700 cfm)
Drld 8-1/2" hole to PD. Spt 50 bbl LCM pill & TOH. PU B#55 & TIH. No mud
losses last 24 hrs.

11/30/84 13,720 Day-169 (50') - Drlg. (9-5/8" @ 11,640' KB)
MW: 8.7# Vis: 39 Pv/Yp: 9/6
Air (700 cfm)
Cont'd TIH. Wrkd tite spt @ 12,845'. Cont'd TIH. Wsh & rm 55' to btm. Drld
8-1/2" hole to PD.

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11/10-13 13,111	<p>Day-152 (112') - Well soaking w/LCM. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 50 Pv/Yp: 12/8 Drld to 13,010', lost compl returns. Pmp LCM pill, regain full returns. Drld to 13,011' & lost compl returns. Pmp LCM pill, regained full returns. POH to csg shoe, bld mud vol. RIH, tag bridge @ 12,926'. Drld to 13,018' & lost full returns. Pmp LCM pill. Regain 85% returns. Drld to 13,020', lost full returns. Pmp LCM pill. Regain 60% returns & drld to 13,022'. POH, chg bit. RIH. Wsh & rm 45' to btm w/60% returns. Pmp LCM pill, lost all returns. POH to csg shoe. Bld mud vol. RIH to btm. Drld to 13,038', lost all returns. Pmp LCM, regain returns. Drld to 13,042', wrk tite conn. Drld to 13,107' w/partial returns. Pmpd LCM pill. TFNB. Drld 8-1/2" hole to PD w/80% returns, then lost all returns. POH to csg shoe. Bld mud. RIH. Spt LCM pill. POH to csg shoe. Bldg mud & letting well soak.</p>
11/14/84 13,112	<p>Day-153 (1') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 50 Pv/Yp: 8/6 Air 700 cfm Bld mud vol. Filled hole w/7 bbls. Hole stood full. Attempt to circ - no returns. SD pmps - hole stood full. Wrk pipe, brk circ w/50% returns. SD. Hole stood full. POH to 6500'. Circ & cond mud - losing 20 BMPH. RIH to 9500' - circ & cond (lost 20 BM). RIH to 11,600', circ & cond. RU air equip. Circ w/aerated mud. RIH. Wsh & rm 30' to btm. Drld to PD w/aerated mud. Full returns.</p>
11/15/84 13,174	<p>Day-154 (62') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 37 Pv/Yp: 7/4 (220 gpm) Air 700 cfm Drld 8-1/2" hole to PD. Lost 150 BM while adjusting air vol. No mud lost in last 15 hrs.</p>
11/16/84 13,194	<p>Day-155 (20') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 40 Pv/Yp: 7/4 (220 gpm) Air 700 cfm Drld to 13,184'. POH. PU new bit & SS, gauge stabilizers. RIH. Rnd 12,994-13,054' & 13,164-13,184'. Drld 8-1/2" hole to PD.</p>
11/17-19 13,318	<p>Day-158 (124') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.6# Vis: 36 Pv/Yp: 6/12 (220 gpm) Air (700 cfm) Drld 8-1/2" hole to 13,267'. TFB. RIH. Could not brk circ. POH to csg shoe. Bld mud. Attempt to circ w/o success. RIH. Tagged bridge @ 13,172'. Spt 70 bbl LCM pill. Circ w/mud & air w/full returns. Wsh 95' to btm. Drld to PD w/full returns.</p>

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11/2/84 12,815	<p>Day-141 (34') - RIH. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 51 Pv/Yp: 22/10 Drld to 12,790'. Lost 40% returns. Pmpd LCM pill & regained returns. Drld 8-1/2" hole to PD. Lost partial returns. Pmpd LCM & regain returns. POH. Rec'd brkn buttons & pcs of metal in JS. Chk stabilizers - OK. RIH. Lost 300 BM in last 24 hrs.</p>
11/3-5 12,904	<p>Day-144 (89') - RIH. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 48 Pv/Yp: 12/4 RIH w/B#42. Wsh & rm 30' to btm. Drld to 12,846'. Lost 15% returns. Pmpd LCM, regain returns. Drld to 12,868'. Lost partial returns. Pmpd LCM. TFNB. Found 1 pce of metal in JS. RIH w/bit #43. Wsh & rm 30' to btm. Drld 8-1/2" hole to PD. POH. Rec'd metal f/JS. RIH w/B#44. Total mud lost in 3 days = 200 bbls.</p>
11/6/84 12,930	<p>Day-145 (26') - Bld mud vol. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 44 Pv/Yp: 12/4 RIH. Rnd 23' to btm. Drld 8-1/2" hole to PD w/partial lost returns @ 12,912'. Pmpd LCM & regain returns. At PD lost full returns. Pmpd LCM pill. No returns. POH to csg shoe. Pmpd LCM pill. No returns. Bld vol.</p>
11/7/84 12,930	<p>Day-146 (0') - Prep to spt amt plug. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 46 Pv/Yp: 11/4 Pmp 130 BM into ann, could not fill hole. TIH to 12,770'. Pmp 280 BM w/o returns. TOH to csg shoe & rebld vol. Pmp 200 BM w/o returns. TOH. Std back BHA. TIH w/OE DP. Tag bridge @ 12,910'. RU Howco & pmp 160 BM & establish circ. Attempt to wsh to TD.</p>
11/8/84 12,930	<p>Day-147 (0') - Drlg amt. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 38 Pv/Yp: 5/2 Wsh fill f/12,910-12,930' w/OE DP. Spt 250 sx C1 "H" + 0.15% HR-12 calculated to fill 12,917-12,245'. No circ while sptg plug. POH. Inspect BHA while WOC. RIH to 9-5/8" shoe. Circ w/full returns & WOC. RIH. Tag amt @ 12,874'. Drld firm amt to 12,890' w/full returns.</p>
11/9/84 12,999	<p>Day-148 (69) - Drlg. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 42 Pv/Yp: 8/4 Drld firm amt 12,890-12,911'. Lost compl returns @ 12,911'. Mix & pmp LCM pill, regained full returns. Drld firm amt to 12,930' & 5' of new hole to 12,935'. Circ smpls w/partial returns. Pmpd LCM pill, regained full returns. Drld 8-1/2" hole to PD w/intermittent 20-40% lost returns. Presently 20% lost returns. Have lost 1425 BM in last 24 hrs.</p>

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10/24/84 12,575	<p>Day-132 (41') - POH. (9-5/8" @ 11,640' KB) MW: 8.6# Vis: 48 Pv/Yp: 15/10 Drld to 12,573' w/lost returns @ 12,551' & 12,566'. Mix LCM & regain returns. Drld 8-1/2" hole to PD. Lost returns. Mix LCM. Pull into csg. Mix LCM. Bld vol. Hole std'g full. Plugged bit. POH. Lost 550 BM in last 24 hrs.</p>
10/25/84 12,621	<p>Day-133 (46') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 41 Pv/Yp: 12/4 Tst BOPs. RIH. Wsh & rm 30' to btm, 5' fill. Drld to 12,606'. Circ drlg brk. Drld 8-1/2" hole to PD w/full returns.</p>
10/26/84 12,679	<p>Day-134 (59') - RIH. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 49 Pv/Yp: 16/11 Drld 8-1/2" hole to PD. POH f/new bit. RIH. Survey: 1-1/4° @ 12,669'.</p>
10/27-29 12,749	<p>Day-137 (70') - Prep to POH. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 43 Pv/Yp: 7/4 Drld 8-1/2" hole to PD w/TFNB @ 12,708' & 12,734'. Lost returns @ PD. Mix & spt LCM, pull into csg. Bld vol. Run back in, spt another LCM pill. Let pill soak. Sptd a total of 5 LCM pills w/o returns. Attempt to circ, bit plugged. Prep to POH. Surveys: 1-1/4° @ 12,669' & 12,730'.</p>
10/30/84 12,749	<p>Day-138 (0') - WOC. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 45 Pv/Yp: 8/6 POH. RIH OE to 12,655'. Spt 200 sx "H" + 0.5% HR-12 w/no returns. POH 20 stds. Attempt to put sqz on plug. Pmpd 6 bbls - no press. POH 18 stds - WOC & bld vol.</p>
10/31/84 12,749	<p>Day-139 (0') - WOC. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 50 Pv/Yp: 10/6 POH. WOC & bld vol in pits. RIH w/bit. Brk circ @ 6,000' & 12,170' w/full returns. Tag cmt @ 12,480' & wsh soft cmt to 12,503'. Drld fairly firm cmt to 12,505'. WOC & circ w/full returns.</p>
11/1/84 12,781	<p>Day-140 (32') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 50 Pv/Yp: 16/7 WOC & circ w/full returns. Drld cmt 12,505-12,630'. Rnd 119' to btm. Drld 8-1/2" hole to PD. No mud lost last 24 hrs.</p>

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10/13-15 12,076	<p>Day-123 (36') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 38 Pv/Yp: 6/3 WOC. POH. RIH w/bit. WOC. Tag cmt @ 11,580'. DO cmt to 12,009'. Drld 8-1/2" hole to 12,040'. Circ drlg brk. Drld 8-1/2" hole to 12,045'. Lost full returns. Pmp LCM pill. Drld to 12,047'. Spt LCM pill. Pull into csg. Bld mud vol & mix LCM. RIH. Drld to 12,066'. POH. RIH w/new bit. Wsh & rmd 55' to btm. Drld 8-1/2" hole to PD. Mud loss slowing dn. Total mud lost over 3-day period = 680 bbls.</p>
10/16-17 12,213	<p>Day-125 (137') - RIH. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 66 Pv/Yp: 17/15 Drld 8-1/2" hole to 12,082' w/partial returns. Drld to 12,112' w/full returns. Lost partial returns. Mix LCM & regain returns. Drld to PD. POH. PU new bit & BHA. RIH.</p>
10/18/84 12,283	<p>Day-126 (70') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 66 Pv/Yp: 18/16 RIH. Wsh 30' to btm, 5' fill. Drld 8-1/2" hole to PD - no mud loss.</p>
10/19/84 12,412	<p>Day-127 (129') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.8+# Vis: 53 Pv/Yp: 21/11 Drld to 12,318'. Circ drlg brk - no show. Drld to PD. Survey: 3-1/4° @ 12,338'.</p>
10/20-22 12,486	<p>Day-130 (74') - Drlg cmt @ 12,134'. (9-5/8" @ 11,640' KB) MW: 8.7# Vis: 44 Pv/Yp: 11/5 Drld 8-1/2" hole to PD. Lost returns. Mix LCM. Pld to 11,640'. Bld vol. Plugged bit. POH. RIH w/OE DP. Mix & pmp 250 sx Cl "H" + 0.15% HR-12. POH. WOC. RIH, inspect BHA. Tag cmt @ 12,085'. Drld cmt 12,085-12,134'.</p>
10/23/84 12,534	<p>Day-131 (48') - Drlg. (9-5/8" @ 11,640' KB) MW: 8.6# Vis: 43 Pv/Yp: 13/7 Drld cmt to 12,486'. Drld to 12,492'. Began losing mud. Mix LCM. Regain full returns. Drld to 12,494'. Lost full returns. Mix LCM. Pull into csg shoe. Bld mud. Wsh & rm to btm. 12' fill. Full returns. Drld 8-1/2" hole to PD. Lost partial returns @ 12,503'. Mix LCM & regained full returns. Total mud lost in 24 hrs = 480 bbls.</p>

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10/5/84 11,872	<p>Day-113 (93') - Drlg. (9-5/8" @ 11,640' KB) MW: 9.0# Vis: 46 Pv/Yp: 15/6 Wsh & rm 45' to btm. Drld 8-1/2" hole to 11,871'. Lost 90 BM. Mix LCM pill & regained returns. Drld 8-1/2" hole to PD.</p>
10/6-8 11,997	<p>Day-116 (125') - RIH. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 40 Pv/Yp: 6/4 Drld 8-1/2" hole to 11,901'. Lost returns. Mix LCM & regained returns. Drld to 11,925', lost partial returns. Circ up drlg brk. Drld to 11,971', lost full returns. Mix LCM - no returns. Pull into csg. Bld vol, mix LCM. Regain returns. Drld to 11,991'. Circ up drlg brk. POH. RIH w/CB. Cut Core #2, 11,991-11,997', lost 250 BM, bbl jammed. POH. LD Core #2, rec'd 6'. RIH w/bit & jk sub. Dropped DC clamp pin in hole.</p>
10/9/84 11,997	<p>Day-117 (0') - POH w/magnet. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 48 Pv/Yp: 14/7 RIH. Wsh & rm 60' to btm. Lost 200 BM. POH 5 stds into csg. Bld vol. POH. RIH w/magnet. Wsh 60' to btm, 8' fill. Wrk magnet on btm. POH w/magnet.</p>
10/10/84 12,008	<p>Day-118 (11') - Mixing LCM. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 48 Pv/Yp: 12/6 POH w/magnet. Rec'd fsh. RIH, wsh 30' to btm, 3' fill. Drld 8-1/2" hole to PD. Circ drlg brk @ PD & lost returns. Pull into csg. Mix LCM & bld vol. Total mud lost 550 bbls.</p>
10/11/84 12,031	<p>Day-119 (23') - Mixing mud. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 38 Pv/Yp: 11/4 Mix & pmp LCM pill. Gained 30% returns. Bld vol. Circ w/full returns. Drld 8-1/2" hole to 12,025'. Losing 30-40% returns. Pmp LCM pill. Pull into 9-5/8" csg. Cont w/LCM pills. Regain full returns. RIH, wsh 30' to btm. Drld to PD. Losing 35-40% returns. Pmp LCM pill. Pull into csg. Bld vol. Total mud lost 1800 bbls in 24 hrs.</p>
10/12/84 12,040	<p>Day-120 (9') - WOC. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 39 Pv/Yp: 6/3 TIH, wsh & rm 18' to btm (soft fill). Drld 8-1/2" hole to PD w/ ±65% returns. Pmpd 20% LCM pill & lost approx 180 BM. PU to csg shoe & est circ OK. POH & std back BHA. TIH w/OE DP, mix & pmp 200 sx "H" + 0.15% HR-12 mixed @ 16.4 ppg avg. Displ'd amt w/193 BW; well on vac. PU 30 stds & WOC.</p>

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9/26/84 11,640	Day-104 (0') - RIH. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 52 Pv/Yp: 12/8 NU intermediate csghd & tst to 2000 psi. NU BOPs, chg rams to 5". Tst stack. PU B #28 & BHA. RIH.
9/27/84 11,640	Day-105 (0') - Rng CBL. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 70 Pv/Yp: 22/15 RIH. Tag DV @ 10,212'. Tst csg to 3000# - OK. Drld DV. RIH. Drld soft amt 11,557-11,620' & DFFC @ 11,564'. POH. RU Schl. Rng CBL.
9/28/84 11,640	Day-106 (0') - Rng VSP survey. (9-5/8" @ 11,640' KB) MW: 8.8# Vis: 70 Pv/Yp: 22/15 Fin'd rng CBL log. Rng VSP survey.
9/29-10/1 11,666	Day-109 (26') - RIH. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 45 Pv/Yp: 10/5 Fin'd rng VSP survey. RIH. Tst csg to 3000 psi - OK. DO GS & 6' fm. Circ & cond mud to remove rubber f/system. POH. PU CB & RIH. Cut Core #1, 11,646-11,666'. POH. Cut 20', rec'd 20' Limestone. PU 8-1/2" bit & RIH. Survey: 1-1/2° @ 11,390'.
10/2/84 11,748	Day-110 (82') - Drlg. (9-5/8" @ 11,640' KB) MW: 9.0# Vis: 47 Pv/Yp: 10/7 RIH. Wsh & rm btm 20' - 2' fill. Drld 8-1/2" hole to 11,694'. Drlg brk. Circ btms up. Lost partial returns. Mix & pump LCM pill. Regain full returns (lost 115 BM tota). Drld to 11,705'. Circ smpls up. Drld to PD. Survey: 1° @ 11,724'.
10/3/84 11,779 (corr'd)	Day-111 (31') - RIH w/DST tools. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 46 Pv/Yp: 10/15 Drld 8-1/2" hole to PD. Circ up smpl. Sht trip. Circ & cond. POH. PU & RIH w/tools f/DST #1. Hole took 30 BM in 24 hrs. Survey: 1° @ 11,724'.
10/4/84 11,779	Day-112 (0') - RIH. (9-5/8" @ 11,640' KB) MW: 9.0# Vis: 46 Pv/Yp: 8/4 RIH w/DST tools. Set pkr in csg @ 11,622'. Ran DST #1. POH & LD tst tools. Tst summary: Tst interval 11,640-11,779', Kaibab, 15-60-120-240 min; IHP 5498 & FHP 5443 psi, IFP 300 & FFP 916 psi, ISIP 3940 & FSIP 3995 psi. DP recovery: 2168' mud. Smpl Chmbr recovery: 5 psi, 2400 cc mud, no gas. Max recorded BHT 258°F. PU bit & RIH.

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9/15-17 11,446	Day-95 (365') - RIH w/B# 27. (13-1/2" @ 2422' KB) MW: 9.1# Vis: 45 Pv/Yp: 15/8 Drld 12-1/4" hole to PD. TF new bit. RIH w/B#27. Survey: 1-1/4° @ 11,210', 1/2° @ 11,398'.
9/18/84 11,446	Day-96 (137') - Drlg. (13-1/2" @ 2422' KB) MW: 9.0# Vis: 53 Pv/Yp: 20/13 FIH. Wsh & rm 80' to btm, no fill. Drld 12-1/4" hole to PD.
9/19/84 11,640	Day-97 (57') - POH to log. (13-1/2" @ 2422' KB) MW: 9.0# Vis: 54 Pv/Yp: 19/11 Drld 12-1/4" hole to PD. Began losing partial returns @ 11,635'. Reduce pmp rate f/115 to 80 spm. Pmp 60 bbl LCM pill, regain 100% returns. Inc pmp rate to 109 spm, began losing returns. Pmp 50 bbl LCM pill. Regain full returns @ 70 spm. Total mud lost 320 bbls. Pull 2 stds. Circ & build volume @ 92 spm. Run back to btm, no fill. POH f/logs, chain out.
9/20/84 11,640	Day-98 (0') - Logging. (13-1/2" @ 2422' KB) MW: 9.0# Vis: 59 Pv/Yp: 22/13 Fin POH. Ran DLL/MSFL. Ran FDC/CNL tool - failure. Ran LSS. Reran FDC/CNL. WLTD 11,612'.
9/21/84 11,640	Day-99 (0') - Stringing 10 lines. (13-1/2" @ 2422' KB) MW: 9.0# Vis: 58 Pv/Yp: 15/10 Fin logging FDC/CNL. Ran dipmeter. RD Schl. RIH w/BHA. Stringing 10 lines.
~ /22-24 11,640	Day-102 (0') - WOC. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 52 Pv/Yp: 12/8 Fin stringing 10 lines. RIH. Wsh & rmd 74' to btm. Bridges @ 11,610'. Fill @ 11,631'. Circ & cond. Sht trip. POH. LD BHA. Ran 288 jts 9-5/8", 47#, L-80, BTC. Wsh dn last jt csg, 12' fill. Cmt 9-5/8" thru shoe w/250 sx Cl "H" + LCM & other add. Foll'd by 150 sx Cl "H" & 35% Silica Flour & add. Full returns. Did not bmp plug. CIP @ 1215 hrs 9/23/84. Drop bomb, opn DV @ 10,212'. Circ & WOC. Cmt thru DV w/850 sx Lite cmt & add, foll'd by 150 sx Cl "H" + add. Drop plug & close DV. Held 2000 psi. CIP @ 2245 hrs 9/23/84. WOC.
9/25/84 11,640	Day-103 (0') - NU 9-5/8" csg spool. (9-5/8" @ 11,640' KB) MW: 8.9# Vis: 52 Pv/Yp: 12/8 WOC till 1500 hrs, ND BOPs & set slips @ 510M#. Cut off 9-5/8" lndg jt & chg'd DSA.

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9/5 990	Day-83 (158') - Drlg MW: 8.9# Vis: 53 Pv/Yp: 16/15 Drld 12-1/4" hole to PD. Surv: 1-1/2° @ 9956'.	(13-1/2" @ 2422' KB)
9/6/84 10,171	Day-84(181') - Drlg MW: 8.8# Vis: 51 Pv/Yp: 15/13 Drld 12-1/4" hole to PD.	(13-1/2" @ 2422' KB)
9/7/84 10,321	Day-85 (50') - Drlg MW: 8.8# Vis: 56 Pv/Yp: 12/11 Drld 12-1/4" hole to PD w/one shrt trip.	(13-1/2" @ 2422' KB)
9/8-10 10,650	Day-88 (329') - Drlg. MW: 9.0# Vis: 49 Pv/Yp: 20/15 Drld 12-1/4" hole to 10,352'. POH. Inspect & repair BHA. RIH. Wsh & rm 50' to btm. Drld 12-1/4" hole to PD. Survey: 1-1/2° @ 10,330'.	(13-1/2" @ 2422' KB)
9/11/84 10,765	Day-89 (115') - Drlg. MW: 9.0# Vis: 51 Pv/Yp: 20/13 Drld 12-1/4" hole to PD. Survey: 1° @ 10,675'. Mud clnr & centrifuge dn.	(13-1/2" @ 2422' KB)
9/12/84 10,903	Day-90 (138') - Drlg. MW: 9.0# Vis: 50 Pv/Yp: 19/13 Drld 12-1/4" hole to PD. Mud clnr & centrifuge back on.	(13-1/2" @ 2422' KB)
9/13/84 10,944	Day-91 (41') - Drlg. MW: 9.0# Vis: 50 Pv/Yp: 20/10 Drld to 10,903'. TOH f/B#26, sli tite 31st & 42-46th stds (5-10M# over). Guage BHA, replace 2nd RWP, TIH. Wsh & rm 60' to btm. Drld to PD. Survey: 1-1/4° @ 10,901'.	(13-1/2" @ 2422' KB)
9/14/84 11,081	Day-92 (137') - Drlg. MW: 9.1# Vis: 46 Pv/Yp: 18/9 Drld 12-1/4" hole to PD. LD 2 jts DP w/washouts. Top Virgin Limestone 10,937'.	(13-1/2" @ 2422' KB)

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8/23/84	8500	Day-70 (165') - Wrkg on pmps MW: 8.8# Vis: 47 Pv/Yp: 14/9 Drld 12-1/4" hole to PD. Survey: 2-1/4° @ 8409'.	(13-1/2" @ 2422' KB)
8/24/84	8702	Day-71 (202') - Drlg MW: 8.8# Vis: 43 Pv/Yp: 13/8 Drld 12-1/4" hole to PD. Survey: 1-1/4° @ 8627'.	(13-1/2" @ 2422' KB)
8/25-27	9033	Day-74 (331') - Drlg MW: 8.8# Vis: 45 Pv/Yp: 11/11 Drld, POH f/B#22, SLM (no corr). Inspect HWDP & BHA. Refaced 2 DC boxes & 1 pm. PU 2 new RWPs & redress 6 pt. TIH. Wsh & rmd 60' to btm w/1' fill. Drld to PD. Surveys: Misrun @ 8828', 1-3/4° @ 8897'.	(13-1/2" @ 2422' KB)
8/28	9149	Day-75 (116') - Drlg MW: 8.9# Vis: 53 Pv/Yp: 15/13 Drld 12-1/4" hole to PD.	(13-1/2" @ 2422' KB)
8/29	9187	Day-76 (38') - Drlg MW: 8.9# Vis: 55 Pv/Yp: 14/14 Drld 12-1/4" hole to 9169'. Bit plugged. POH. Clnd jnk sub contained inserts & rubber, bit plugged w/rubber. RIH & ream 48' tite hole to btm. Drld ahead to PD.	(13-1/2" @ 2422' KB)
8/30	9357	Day-77 (170') - Drlg MW: 8.9# Vis: 58 Pv/Yp: 20/21 Drld 12-1/4" hole to PD. Surv: 1-1/4° @ 9208'.	(13-1/2" @ 2422' KB)
8/31	9490	Day-78 (133') - Drlg MW: 9.0# Vis: 50 Pv/Yp: 16/12 Drld 12-1/4" hole to PD	(13-1/2" @ 2422' KB)
9/1-4	9832	Day-82 (342') - Drlg MW: 8.9# Vis: 48 Pv/Yp: 14/12 Drld 12-1/4" hole to 9690'. POH. Tst BOPs. RIH w/new bit, 6 pt, RWP & shock sub. Slightly tite below 9200'. Ream 60' to btm. Drlg to PD. Surv: 1-3/4° @ 9521', 1-1/2° @ 9677'.	(13-1/2" @ 2422' KB)

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8/14/84 6945

Day-61 (389') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.8# Vis: 45 Pv/Yp: 14/11
Drld 12-1/4" hole to PD. Survey: 1-3/4° @ 6708' & 6859'. No lost circ.

8/15/84 7061

Day-62 (116') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.9# Vis: 44 Pv/Yp: 14/11
Drld 12-1/4" hole to 7058'. POH, LD 20 jts DP. Cln JS, LD JS & two 3 pt rms. PU 6 pt rmr. RIH. PU new SS, 20 jts DP, rm 30' to btm. Drld to PD. Rig repair (1/4 hr).

8/16/84 7358

Day-63 (297') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.8# Vis: 46 Pv/Yp: 14/12
Drld 12-1/4" hole to PD. Surveys: 2° @ 7060' & 7242'.

8/17/84 Day 64

TD: 7662' (304') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.8# Vis: 43 Pv/Yp: 12/9
Drld 12-1/4" hole to PD. Surveys: 1-1/2° @ 7427', 1° @ 7578'.

8/18-20 Day 67

TD: 8096' (434') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.8# Vis: 47 Pv/Yp: 17/13
Drl 12-1/4" hole to 7734'. POH. Drag 25-35M# stds 12, 13, 16. LD 43 jts "E" DP. Lost 4 DP rubbers. RIH w/3=20 & JS, PU X-95 DP. Tag brdg @ 7690', wsh & ream to btm. Drld to PD. Surveys: 2° @ 7705', 1-3/4° @ 7919'.

8/21/84 Day 68

TD: 8127' (31') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.8# Vis: 44 Pv/Yp: 17/9
Drl 12-1/4" hole to 8124'. POH. Cln JS of jk f/DP rubbers & inserts. RIH, wsh & ream 60' to btm. Drlg 12-1/4" hole to PD. Rig rep 6-1/2 hrs. Surv: 1-1/2° @ 8120'.

3/22/84 8335

Day-69 (208') - Drlg. (13-1/2" @ 2422' KB)
MW: 8.8# Vis: 46 Pv/Yp: 15/11
Drld 12-1/4" hole to PD. At 8230', drld into white sd & ROP went f/ 8' to 22'/hr. No lost returns. ROP back to 8'/hr.

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8/2/84 5248	Day-49 (98') - Drlg. MW: 8.8# Vis: 46 Pv/Yp: 17/16 Drl'd & surveyed to PD. Survey: 5-1/4° @ 5142' & 5214'. (13-1/2" @ 2422' KB)
8/3/84 5349	Day-50 (101') - Drlg. MW: 8.8# Vis: 50 Pv/Yp: 20/22 Drl'd 12-1/4" hole to PD. Surveys: 5° @ 5265' & 5326'. (13-1/2" @ 2422' KB)
8/4-6 5578	Day-53 (229') - Drlg. MW: 8.8# Vis: 46 Pv/Yp: 13/12 Drl'd to 5448'. TOH. Press tst BOPE & PU B#16. Chg BHA & TIH. Wash & rm f/5388-5448' (precautionary). Drl'd 12-1/4" hole to PD. Surveys: 5-1/4° @ 5388', 4-3/4° @ 5448', 4-1/2° @ 5459', 4° @ 5517'. (13-1/2" @ 2422' KB)
8/7/84 5610	Day-54 (32') - Drlg. MW: 8.8# Vis: 70 Pv/Yp: 13/27 Drl'd 12-1/4" hole to 5591'. Pull into csg to repair rig. Fin TFB. Drl'd to PD. Survey: 3-3/4° @ 5581'. (13-1/2" @ 2422' KB)
8/8/84 5752	Day-55 (142') - Drlg. MW: 8.7# Vis: 38 Pv/Yp: 8/4 Drl'd 12-1/4" hole to PD. Chg to lime mud. Survey: 2-3/4° @ 5642'. (13-1/2" @ 2422' KB)
8/9/84 5927	Day-56 (175') - Drlg. MW: 8.6# Vis: 42 Pv/Yp: 14/2 Drl'd 12-1/4" hole to PD. Surveys: 2-3/4° @ 5733' & 5796', 2-1/2° @ 5884'. (13-1/2" @ 2422' KB)
8/10/84 6110	Day-57 (183') - Drlg. MW: 8.6# Vis: 55 Pv/Yp: 13/18 Drl'd 12-1/4" hole to PD. Rm tite hole on conn. Surveys: 2-1/2° @ 5974', 2-1/4° @ 6065'. (AC \$ 1,281M) (AFE \$4,460M) (13-1/2" @ 2422' KB)
8/11-13 6556	Day-60 (446') - Drlg. MW: 8.8# Vis: 48 Pv/Yp: 13/12 Drl'd 12-1/4" hole to 6217'. POH. Inspect BHA. Level derrick (3-1/2 hrs), reposition DP rubbers (4 hrs). Drl'd 12-1/4" hole to PD. Drlg brk @ 6286'. Circ up smpls. Surveys: 2° @ 6199', 1-3/4° @ 6283', 2° @ 6433', 1-3/4° @ 6537'. (AC \$ 1,335M) (AFE \$4,460M) (13-1/2" @ 2422' KB)

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7/21-23	4280	Day-39 (30') - Wsh & rm @ 3519'. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 58 Pv/Yp: 23/26 Mist drld to PD & stuck. Displ'd hole w/mud & freed pipe. Circ hole cln rec'g lrg amt of cuttings. POH. TIH w/B#12, wsh & rm tite hole.
7/24/84	4280	Day-40 (0') - Wsh & rm @ 4061'. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 53 Pv/Yp: 15/16 Wsh & rmd to 3618' & made sht trip to csg shoe.
7/25/84	4427	Day-41 (147') - Drlg. (13-1/2" @ 2422' KB) MW: 8.7# Vis: 58 Pv/Yp: 16/19 Wsh & rmd to btm. Circ & cond. Sht trip to csg shoe @ 2422'. Wsh & rm to btm. Drld & surveyed to PD. Survey: 3-1/2' @ 4346'.
7/26/84	4606	Day-42 (179') - Drlg. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 52 Pv/Yp: 20/18 Drld 12-1/4" hole to PD. Surveys: 4° @ 4436', 3-3/4° @ 4514', 4-1/4° @ 4575'.
7/27/84	4701	Day-43 (95') - Rng Dir Survey. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 49 Pv/Yp: 16/15 Drld & surveyed to PD w/TFB @ 4637'. Survey: 4-1/4° @ 4619'.
7/28-30	5034	Day-46 (333') - POH w/CB. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 48 Pv/Yp: 16/21 Drld & survey 12-1/4" hole to 5018'. Circ & cond. POH & PU 8-3/4" CB. TIH & cut Core #1, 5018-5034'. Surveys: 4-1/4° @ 4744', 5° @ 4836', 4-3/4° @ 4898', 4-1/2° @ 4958'.
7/31/84	5042	Day-47 (8') - Drlg. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 45 Pv/Yp: 16/19 POH w/CB. LD Core #1, 5018-5034', cut 16' & rec'd 15.4'. LD CB & PU drlg BHA. TIH & drld to PD. Survey: 4-3/4° @ 5021'.
8/1/84	5150	Day-48 (108') - Drlg. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 44 Pv/Yp: 11/12 Drld & surveyed to PD. Survey: 4-1/2° @ 5082'.

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7/12/84 3315	Day-28 (144') - Drlg. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 40 Pv/Yp: 10/6 Drld 12-1/4" hole & survey to PD. Surveys: 3-3/4° @ 3180', 3° @ 3110', 3240' & 3269'.
7/13/84 3392	Day-29 (77') - Drlg. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 37 Pv/Yp: 9/4 Drl & survey 12-1/4" hole to PD w/TFB @ 3340'. Surveys: 3-1/2° @ 3300', 3-1/4° @ 3331', 3° @ 3362'.
7/14-16 3559	Day-32 (167') - Blwg hole dry. (13-1/2" @ 2422' KB) Air Drlg. Drld to PD. POH, CO & inspect BHA. RU air drlg equip & rot hd. TIH. Blw hole dry @ 1487', 2422', 2968' & 3559' w/2400 cfm. Incr'd rate to 3600 cfm, press incr'd f/550-1500 psi. TOH to csg shoe. Blw hole dry w/3600 cfm @ 200 psi. Surveys: 3-1/4° @ 3390', 2-3/4° @ 3421', 2-1/2° @ 3453', 2-3/4° @ 3484' & 3514'.
7/17/84 3670	Day-33 (111') - Drlg. (13-1/2" @ 2422' KB) Mist drlg. Blw hole dry @ 2422', 2968' & 3559' w/3600 cfm, 800 psi. Repair blooeey line. Cont blw hole dry @ 3559' w/3600 cfm, 12 BWPH. Drld w/mist to PD. Surveys: 2-3/4° @ 3592', 2-1/2° @ 3652'.
7/18/84 3870	Day-34 (200') - Drlg. (13-1/2" @ 2422' KB) Mist drlg (3600 cfm @ 180 psi) Drld 12-1/4" hole w/mist to PD. Surveys: 2° @ 3743', 2-1/2° @ 3836'.
7/19/84 4068	Day-35 (198') - Drlg. (13-1/2" @ 2422' KB) Mist drlg (3600 cfm w/12 BWPH @ 210 psi) Drld 12-1/4" hole w/mist to PD. Surveys: 3° @ 3896', 3958' & 4050'.
7/20/84 4250	Day-36 (182') - Survey. (13-1/2" @ 2422' KB) Mist drlg (3600 cfm w/12 BWPH @ 210 psi) Drld 12-1/4" hole w/mist to PD. Had 3 SD on IR pmp to CO plugged filter & valve. Had 1 SD to repair weld on blooeie line. Surveys: 3-1/4° @ 4148' & 4250'.

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6/30-7/2 2424	<p>Day-17 (137') - WOC. (13-1/2" @ 2422' KB) MW: 8.9# Vis: 50 Pv/Yp: 18/15 Drld 17-1/2" hole to PD. POH. RU Schl & ran DLL/Sonic/GR/Calip f/TD to surf. RD Schl & TIH. Circ & cond. POH & LD BHA tools. RU csg crew. Ran 60 jts 13-1/2", 81.4#, S-95, BTC csg (2425' OA length). Landed @ 2422' KB. TIH w/DP & inner string stinger. Stab into FC @ 2336' & circ. Cmt w/1805 sx BJ Lite w/add, foll'd by 600 sx C1 "B" w/add. Lost returns f/last 600 sx of cmt job. TOH w/DP & stgr. Ran 1" pipe to 200'. Perf'd 350 sx top job w/gd returns. WOC.</p>
7/3/84 2424	<p>Day-18 (0') - NU BOPE. (13-1/2" @ 2422' KB) MW: 8.9# Vis: 50 Pv/Yp: 18/15 WOC, cut off cond & 13-1/2" csg. Weld on csghd. Begin NU BOP stack.</p>
7/4-5 2424	<p>Day-20 (0') - Insp HWDP & DC. (13-1/2" @ 2422' KB) Fin NU BOPE & press tst. TIH w/HWDP & DC. RU LD machine. LD entire drill string f/insp.</p>
7/6/84 2424	<p>Day-22 (corr'd) (0') - Rng CBL/VDL w/press. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 69 Pv/Yp: 10/25 Fin insp DC & HWDP. MU BHA & TIH. Tag FC @ 2336'. Drld FC & cmt to 2401'. POH. RU Schl & run CBL/VDL, bond poor.</p>
7/7-9 2893	<p>Day-25 (469') - Drlg. (13-1/2" @ 2422' KB) MW: 9.0# Vis: 44 Pv/Yp: 12/10 TIH w/ 12-1/4" bit, circ & cond mud, press tstd csg to 1000 psi. Drld shoe & 20' new fm. Circ & cond mud, press tstd shoe to 13.0 ppg EMW w/o leak-off. Drld ahead to 2559', POH & chg'd to packed BHA. TIH w/B#8 & drld to PD. Surveys: 1-1/4° @ 2450' & 2541', 2° @ 2602', 2660' & 2722', 4° @ 2873' (?); will rerun.</p>
7/10/84 2990	<p>Day-26 (97') - Drlg. (13-1/2" @ 2422' KB) MW: 9.0# Vis: 42 Pv/Yp: 14/10 Drld 12-1/4" hole & survey to PD w/TFB @ 2984'. Surveys: 2-1/2° @ 2903', 3° @ 2933', 3-1/2° @ 2964'.</p>
7/11/84 3171	<p>Day-27 (181') - Drlg. (13-1/2" @ 2422' KB) MW: 8.8# Vis: 43 Pv/Yp: 14/14 Drld 12-1/4" hole & survey to PD. Surveys: 3° @ 2994' & 3056', 3-1/2° @ 3087', 3119' & 3149'.</p>

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6/22/84	1488	<p>Day-8 (217') - Drlg (20" @ 85' GL) MW: 8.8# Vis: 38 Pv/Yp: 7/8 Drld 17-1/2" hole to PD. Had numerable repairs to #2 pmp throughout day. Surveys: 3/4° @ 1352'.</p>
6/23-25	1889	<p>Day-11 (401') - Repair #2 pmp. (20" @ 112' GL) MW: 8.9# Vis: 53 Pv/Yp: 12/10 Drld to 1535' & TFB #5. Drld 17-1/2" hole to PD. Had to SD numerable times to repair #2 pmp. Repair #2 pmp @ report time. Surveys: 1-3/4° @ 1475' & 1512', 2° @ 1550', 1° @ 1581', 1611' & 1670', 1-1/4° @ 1700' & 1761', 1° @ 1821'.</p>
6/26/84	1970	<p>Day-12 (81') - Inspect BHA. (20" @ 112' GL) MW: 8.9# Vis: 50 Pv/Yp: 7/6 Drld 17-1/2" hole to PD w/SD f/chg out swb on #2 pmp. While drlg @ PD, lost 350 psi. Pmpd Flag & TOH. Found hole in slip area in 2nd jt DP above HWDP. Fin TOH inspecting BHA. LD 4 jts HWDP w/3 cracked boxes & 1 pld pin. Surveys: 1° @ 1882' & 1942'.</p>
6/27/84	1970	<p>Day-13 (0') - PU & RIH w/new BHA. (20" @ 112' GL) MW: 8.9# Vis: 48 Pv/Yp: 9/6 Fin inspect BHA & LD 2-XO (bad shoulders), one (1) 10" DC (bad shoulder) & SDC (bad thrds). Cut off 20" cond & weld on flange. NU 20" drl spl & 20" ann preventer w/drlg nple. Instl 4" hyd valve on spool, kill line & valve, chk line & valve. PU & RIH w/new BHA.</p>
6/28/84	2103	<p>Day-14 (133') - Drlg. (20" @ 112' GL) MW: 8.9# Vis: 48 Pv/Yp: 9/8 Fin PU BHA & TIH w/B#6. Drld. Had to repair rotary sprocket & had to chg out valve & seat in #2 pmp. Drld & lost 450 psi pmp press. Pmp flag & TOH f/WO. Found WO in HWDP 2 jts f/top. LD & PU 2 jts HWDP. TIH. Drld 17-1/2" hole to PD w/1 SD to chg swab in #2 pmp. Surveys: 1-1/4° @ 2004', 1-3/4° @ 2067'.</p>
6/29/84	2283	<p>Day-15 (180') - Drlg. (20" @ 112' GL) MW: 8.8# Vis: 46 Pv/Yp: 7/6 Drld 17-1/2" hole to PD. Surveys: 1-3/4° @ 2124', 2° @ 2184' & 2215'.</p>

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6/12/84		Day -5. Commenced rig move 6/7/84.
6/13/84	-6	Cont'd RU, expect Spud 6/13/84 in PM.
6/14/84	85	Day -7 (85') - Fin RU. (20" @ 85' GL) Fin RU rig - #1 motor down & repair same. Expect spud 6/14/84 AM.
6/15/84	365	Day-1 (253') - Drlg. (20" @ 85' GL) MW: 8.4# Vis: 29 Pv/Yp: 2/1 Fin RU & PU rotary tools. SPUD well 0900 hrs 6/14/84. KB @ 16.9' (elev 5416.9') & GL @ 5390'. Drlg 17-1/2" hole to PD. Survey: 1/2° @ 182', 3/4° @ 304'.
6/16- 18/84	806	Day-4 (441') - Trip f/WO (20" @ 85' GL) Drld 17-1/2" hole to 621'. TOH f/WO in 10" DC, chk BHA. Chg out #1 motor. TIH w/B#2. Drld to PD. Lost 400 psi pmp press. Start TOH. Surveys: 1° @ 456', 1-1/8" @ 558', 1-1/4° @ 768'.
6/19/84	962	Day-5 (156') - Trip f/WO (20" @ 85' GL) MW: 8.9# Vis: 34 Pv/Yp: 9/5 Fin TOH f/WO. SS leaking. TIH. Drld 17-1/2" hole to PD. Lost pmp press. TOH. Survey: 1° @ 842'.
6/20	962	Day-6 (0') - Insp HWDP (20" @ 85' GL) MW: 9.0# Vis: 33 Pv/Yp: 5/6 Fin TOH & LD 5 DC, SS, one 10" DC. Left 6 pt mmr & 17-1/2" bit in hole w/TOF @ 948'. PU & TIH w/overshot & fshg tools. Cicr dwn to TOF & egage fsh. TOH w/fsh. LD fsh & tools. PU B#4 & mmr & inspecting BHA & HWDP w/TIH. LD one XO sub w/cracked box & 2 jts HWDP w/wshd & pulled pins.
6/21/84	1271	Day-7 (309') - Drlg (20" @ 85' GL) MW: 8.9# Vis: 41 Pv/Yp: 9/12 Fin inspecting BHA & TIH. Drld 17-1/2" hole to PD. Surveys: 3/4° @ 950', 1° @ 1075', 3/4° @ 1228'.